GENERAL INSTRUMENT
Jerrold Starcom Addressable Control Systems
MODEL AH-4
USER MANUAL

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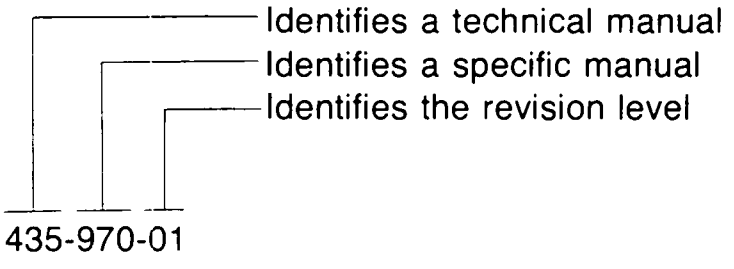

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TABLE OF CONTENTS

SECTION		PAGE
1.1	**INTRODUCTION**	1-1
1.2	**GENERAL DESCRIPTION**	1-1
1.2.1	System Description	1-2
1.2.2	Hardware Description	1-3
1.2.3	Software Features	1-6
1.3	**OPERATION**	1-6
1.3.1	Restarting or Rebooting the System	1-7
1.3.2	Communicating With the AH-4	1-7
1.3.2.1	Documentation Conventions	1-8
1.3.2.2	Capital and Small Letters	1-9
1.3.2.3	Familiarity Exercise	1-9
1.3.2.4	Screen Description	1-9
1.3.2.5	Getting Into the Functions	1-9
1.3.2.6	Screen Features	1-10
1.3.2.7	About the Menu System	1-10
1.3.2.8	Asterisk	1-10
1.3.2.9	Accessing a Function Through the Menu Structure	1-10
1.3.2.10	Previous Screen Key	1-10
1.3.2.11	Selection Menu Key	1-11
1.3.2.12	Go To Screen Key	1-11

SECTION **PAGE**

1.3.2.13 Return Key 1-11
1.3.2.14 System Error Messages 1-11
1.3.2.15 Delete Character Key 1-13
1.3.2.16 Next Field Key 1-13
1.3.2.17 Previous Field Key 1-13
1.3.2.18 Delete Field Key 1-13
1.3.2.19 Arrows and Space Bar 1-14
1.3.2.20 Clear Key 1-14
1.3.2.21 Bottom Key 1-14
1.3.2.22 Top Key 1-14
1.3.2.23 Page Up Key 1-15
1.3.2.24 Page Down Key 1-15
1.3.2.25 Cancel Key 1-15
1.3.2.26 Execute Key 1-15
1.3.2.27 Next Key 1-15
1.3.2.28 Help Key 1-15
1.3.2.29 No Scroll Key 1-15
1.3.2.30 Passwords 1-16
1.3.2.31 Backup/Restore 1-16
1.3.2.32 Loading the Magnetic Tape 1-16
1.3.2.33 Unloading the Magnetic Tape 1-17

2.1 This section not available in this edition.

3.1 **INTRODUCTION** 3-1
3.1.1 Logon Screen 3-1
3.2.1 Selection Menu 3-2
3.4.1 Add New Subscriber 3-3
3.5.1 Change Subscriber Information 3-4
3.6.1 Change Subscriber Identity 3-5
3.7.1 Delete Subscriber 3-6
3.8.1 Clear Converter Control Keys 3-7
3.9.1 Test Converter 3-8
3.10.1 Broadcast Commands 3-9
3.12.1 Read Single Converter Transactions 3-10
3.14.1 Data Collection Menu 3-11
3.15.1 Read Single Converter Authorization 3-12
3.18.1 Isolate Babbling Converters 3-13
3.19.1 Wire Link Menu 3-14
3.20.1 Wire Link Debug Option 3-15
3.21.1 Purchase Data Collection 3-16
3.21A.1 Purchase Data Collection Results 3-17
3.23.1 Do Non-Responding Converter Poll 3-18
3.24.1 Initialize Single Downloadable Converter 3-19
3.25.1 Change Wire Link Logging Options 3-20
3.26.1 Opinion Polling Menu 3-21
3.27.1 Define Default Converter Information 3-22
3.28.1 Start/Stop Wire Link 3-23
3.34.1 System Status Reports 3-24
3.38.1 Enter Channel Cross Reference Information 3-25
3.40.1 Cancel Non-Responding Poll in Progress 3-27
3.41.1 Recover Previously Collected Data 3-28

SECTION **PAGE**

3.42.1 Enter Autotest Information 3-29
3.43.1 Initialize Downloadable Converters 3-30
3.44.1 Change Single Converter Upstream Level 3-31
3.46.1 Direct Control of the DSE 3-32
3.50.1 Read Single Subscriber Purchase Data 3-35
3.51.1 Clear Collected Purchases From Converter 3-36
3.53.1 Cancel Data Collection in Progress 3-37
3.57.1 Do Fast Opinion Pollling 3-38
3.57A.1 Opinion Polling Response 3-39
3.58.1 Refresh Downloadable Converter 3-40
3.60.1 Enter DSE Information 3-41
3.61.1 Change DSE Information 3-42
3.63.1 Delete DSE Information 3-43
3.71.1 Converter Quality Control 3-44
3.85.1 Print Summary Information 3-45
3.94.1 Add New Subscriber 3-46
3.95.1 Change Subscriber Information 3-47
3.99.1 Schedule Polling 3-48
3.153.1 One-Way System Menu 3-49
3.154.1 Subscriber Service Menu 3-50
3.155.1 Converter Operation Menu 3-51
3.156.1 Headend Operations Menu 3-52
3.200.1 Shutdown System 3-53
3.201.1 System Configuration 3-54
3.202.1 New Software Release 3-55
3.203.1 Offline Diagnostics 3-56
3.204.1 Add Data Entry CRTS or Printer 3-57
3.205.1 Update Password Screen 3-58
3.206.1 Start/Stop Cable Interface 3-61
3.211.1 Transfer File To Magnetic Tape 3-62
3.213.1 Update Pay Services 3-63
3.223.1 Clear Pay Services History File 3-64
3.224.1 Clear Data Collection File 3-65
3.225.1 Clear Activity Log File 3-66
3.226.1 Clear Opinion Poll File 3-67
3.227.1 Factory Installation 3-68
3.229.1 Customer Configuration 3-69
3.230.1 Field Service Configuration 3-70
3.231.1 Backup to Magnetic Tape 3-71
3.232.1 Restore Data File 3-73
3.233.1 Add A New Service 3-74
3.234.1 Delete A Service 3-75
3.237.1 Change A Service 3-76
3.240.1 Implement Update 3-77
3.241.1 Add A New Package 3-78
3.242.1 Change A Package 3-79
3.248.1 System Management Menu 3-80
3.249.1 Help Menu 3-81
3.251.1 System Utilities Menu 3-82
3.253.1 AH-4 Keyboard 3-83
3.254.1 How To Use This System 3-84
3.255.1 Help For One-Way Systems 3-85
3.256.1 Help For Two-Way Systems 3-86
3.300.1 PPV Menu 3-87

SECTION PAGE

3.321.1 Report Menu 3-88
3.322.1 Pay Service Reports 3-89
3.323.1 Converter Information Reports 3-90
3.324.1 Print Summary Information 3-91
3.325.1 Print Converter Information 3-92
3.326.1 Print Subscriber Authorization 3-93
3.327.1 Print Service Number Information 3-94
3.328.1 Print Starcom V Information 3-95
3.329.1 Print Converter Status 3-96
3.330.1 System Information Report 3-97
3.331.1 Print Passwords 3-98
3.332.1 Print Autotest Information 3-99
3.333.1 Print Default Converter Information 3-100
3.335.1 Print Channel Cross-Reference List 3-101
3.336.1 Data Collection Report 3-102
3.337.1 Opinion Polling Reports 3-103
3.338.1 Non-Responding Converter Reports 3-104
3.339.1 Control Of Reports 3-105
3.340.1 Activity Logging Reports 3-106

4.1 WIRE LINK MESSAGES 4-1
4.2 SYSTEM MESSAGES 4-13
4.3 FUNCTIONS LISTED NUMERICALLY 4-16A
4.4 PRINTED REPORT SAMPLES 4-17

Print Services Sorted By Service Number 4-19
Print Packages Sorted By Service Number 4-20
Print Packages Sorted By Service Number 4-21
Print (Converter) Summary Information 4-22
All (Converter) Information 4-23
Active Converters 4-24
Inactive Converters 4-25
Connected Converter 4-26
Purchase Status/Credit Limit 4-27
Converter Type 4-28
Remote Unit Status 4-29
Converters in Transit 4-30
Initialized Converter 4-31
Converter Status 4-32
Date of Installation 4-33
Print Subscriber Authorizations 4-34
Print Summary Service Number Report 4-35
Print Starcom V Information 4-36
Print Converter Status 4-37
Print Passwords 4-38
Print Autotest Information 4-39
Print Default Converter Information 4-40
Print System Configuration 4-41
Print System Configuration 4-42
Print Channel Cross Reference List 4-43
Print DSE/DVE Information Report 4-44
Data Collection 4-45
Opinion Polling Reports 4-46

LIST OF ILLUSTRATIONS

FIGURE		PAGE
Figure 1-1	System Diagram	1-2
Figure 1-2	System Hardware	1-3
Figure 1-3	Special Function Keys	1-4
Figure 1-4	AH-4 Keyboard	1-6
Figure 1-5	Microcomputer	1-7
Figure 1-6	Halt Switch	1-7
Figure 1-7	Logon Screen	1-8
Figure 1-8	Add New Subscriber	1-8
Figure 1-9	Special Function Keypad Demonstration	1-9
Figure 1-10	Add New Subscriber	1-12
Figure 1-11	AH-4 Keyboard Demonstration	1-13
Figure 1-12	AH-4 Keyboard Demonstration	1-14
Figure 1-13	Special Function Keypad Demonstration	1-15
Figure 1-14	Seating the Write-Enable Ring	1-16
Figure 1-15	Loading the Magnetic Tape	1-17
Figure 1-16	Storing the Magnetic Tape	1-17

1.1 INTRODUCTION

This manual is written to enable cable system employees to use the Jerrold STARCOM® Addressable Control Stystem Model AH-4. It contains the step-by-step instructions necessary to operate the system. It also contains general information about the system and its hardware.

This manual is divided into four sections. Section 1 contains a general description of the system's hardware and software as well as an exercise which will make the user familiar with the way the system operates. Section 2 contains a brief summation of the way each function works and the information required to be in the system before it can be used. This section is not available in this edition of the manual. Section 3 contains the procedures for operating the screen. Section 4 contains the reference material needed by the user for this system.

1.2 GENERAL DESCRIPTION

The Jerrold Addressable Control System is a system of hardware and software that enables the cable operator to control subscriber's access to cable TV system services. This state-of-the-art equipment may be used on either one- or two-way, or combination one- and two-way CATV systems.

The AH-4 includes all of the functions in Jerrold Models AH-1 and 2 systems. It is compatible with all addressable converters, from existing to the newest products being developed. When used with the Jerrold STARVUE and STARCOM V converters, it provides the cable system operator with the following functions:

- Capacity to address over a half million subscribers.
- Control of each operator's access to various functions.
- Impulse pay-per-view services (IPPV) with operator assigned credit limits.,
- Polling service capability.
- Control and packaging of subscriber services.
- Expanded on-line diagnostics.
- Expanded management control via a large data base and reporting system.
- Special provisions for detecting and defeating signal pirating and protecting the system revenue base.
- Direct access to any screen or function via a menu driven system.
- Single keystroke commands from a special purpose keypad.
- Preprogrammed values for all data entry screens.

Subscribers with appropriate converters have the ability to:

- Purchase pay-per-view events on impulse (IPPV).
- Participate in opinion polls.
- Purchase special program packages.
- Deny access to selected programs automatically for parental control purposes.
- Purchase subscription services.

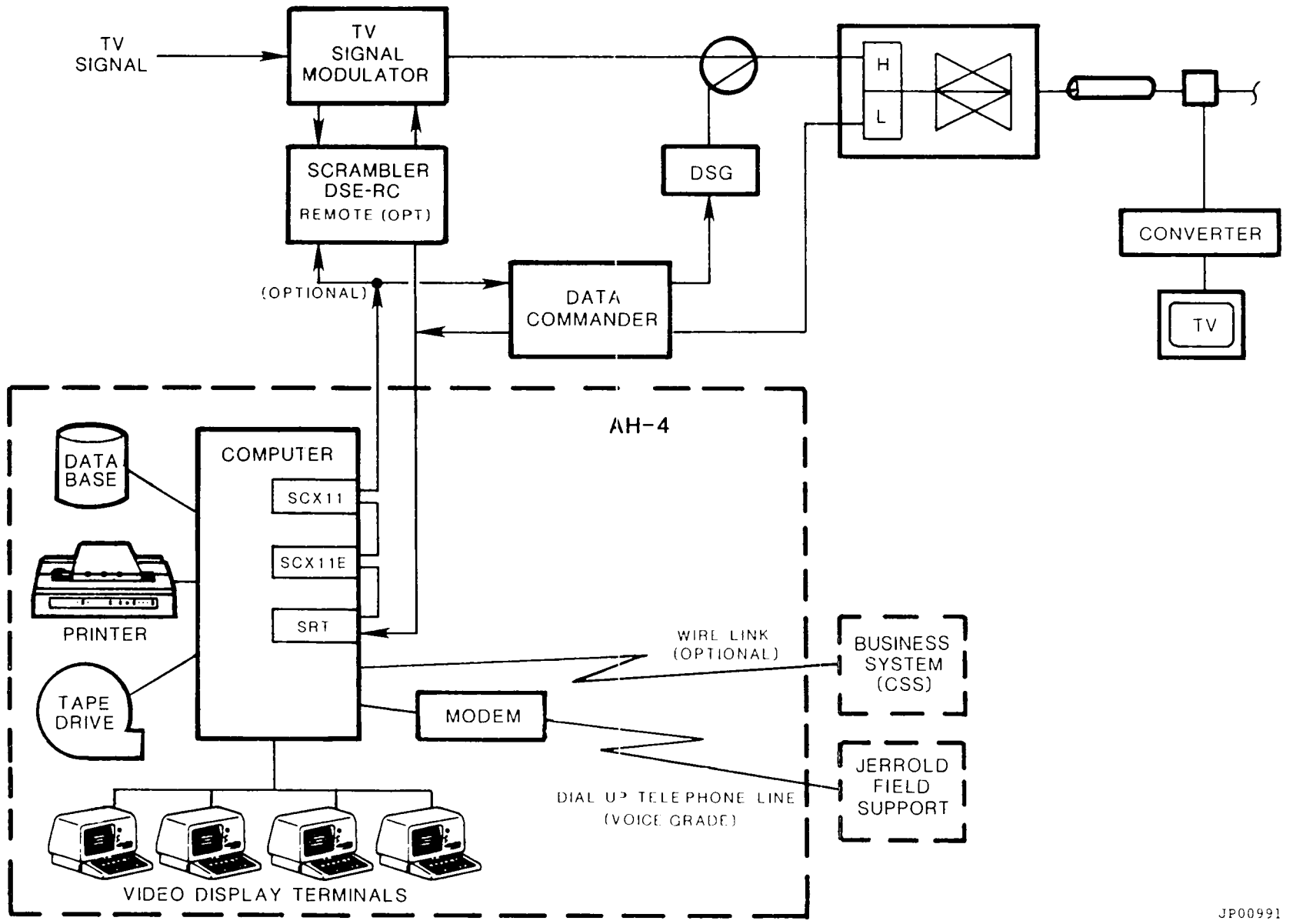


FIGURE 1-1. SYSTEM DIAGRAM

1.2.1 System Description

The AH-4 system is operated from the cable system's headend. The system sends information from the computer through the data commander, through the DSG to the subscriber's converter or television (see Figure 1-1).

There are two options on the AH-4: compatibility with the DSE and a wire link. Facilities at the headend enable the cable system to both directly control the DSE and maintain information about the encoders in the AH-4 system.

The AH-4 controller can be hooked up to a wire link which is connected to a billing machine. The connection allows many of the functions to be directed from the customer service machines and eliminates dual entry need. The hook-up with the customer service machine reduces the number of discrepancies and provides more operator service capabilites through the video display terminal.

The Jerrold Data Signal Generator is used with the Jerrold Addressable Control System to allow performance of maintenance procedures to computer and transmission equipment without necessitating equipment shutdown. Additionally, the DSG provides protection against system crashes or service interruption due to momentary outages or operator error. The DSG provides a substitute source of power, RF carrier and "keep alive" data, as necessary, to maintain continuous operation of the system.

1.2.2 Hardware Description

The hardware required to run the AH-4 Addressable System consists of nine basic components. Seven are mounted in a cabinet.

This cabinet contains:

- A Tape Transport System.
- Microcomputer
- Date/Time Modules
- A Jerrold Model SCX11 Transmitter Module.
- One or more Jerrold Model SCX11E Transmitter Modules.
- One Jerrold Receiving Module.
- One or two Winchester Disk Drives.

External to the cabinet and electrically connected are:

- One to eight Video Keyboard Terminals.
- One or two printers.
- Modems.
- Links to billing systems.

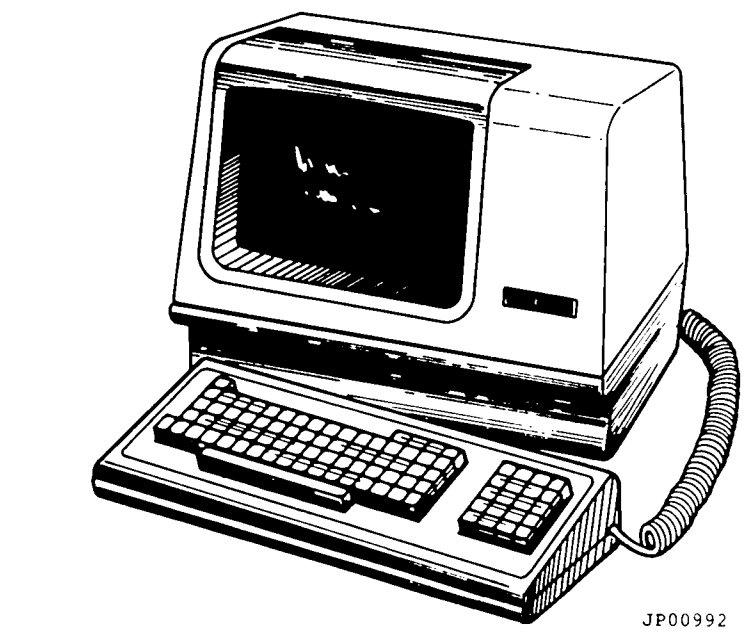
Refer to Figure 1-2

Tape Transport
The TSV05 is a tape transport device for an industry standard ½-inch wide, 9-track magnetic tape reel which provides the means to:

a. Load system software and software updates onto the Winchester disk.

b. Record, for data back-up purposes, all of the subscriber data and transaction files stored on the Winchester disk.

c. Restore data and system transaction files on the Winchester disk when the need arises.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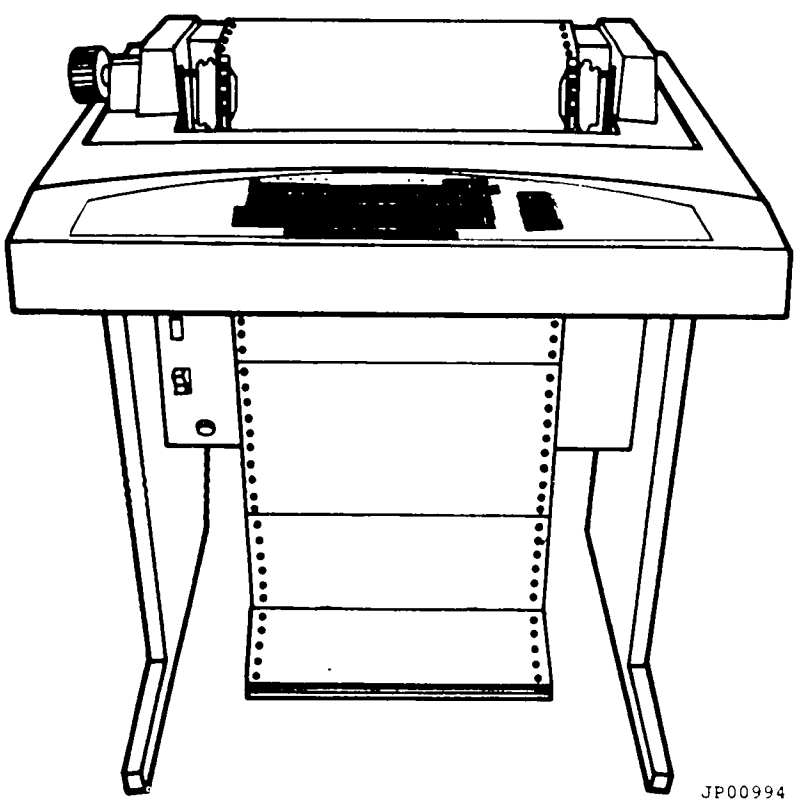
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FIGURE 1-2. SYSTEM HARDWARE

1.2.2 continued

Microcomputer

The microcomputer is the controlling element in the AH-4 control system. All operating commands and data entered into the system and all data transactions from the cable system are processed through the computer. The computer chassis includes additional "slots" for installing other basic system components and options.

Date/Time Module

The TCC module is installed in the computer chassis. This module maintains system time. It contains the time-of-day and the date. The unit has a battery back-up. The system time is set from this when the system is started up (or "booted") and during an "autoboot" the system start up is the result of a power failure.

Transmitter Module — SCX11 and SCX11E

The SCX11 and SCX11E modules are installed in and are an integral part of the computer. These modules store, format, and transmit data over the cable system principally for one-way converters. Slots and electrical connections are reserved in the computer chassis to accept additional transmitter modules as system requirements and marketing conditions may require due to an increase in other subscribers or service offerings.

Receiver Module

This is needed only in a system with either two-way converters or a DSE scrambler with remote control options. The SRT11 receiver module is installed in and is an integral part of the computer. Data originating at the subscriber converters such as impulse pay-per-view selections and polling data are received by the SRT11, formatted and delivered to the computer for processing.

Winchester Drives

The Winchester Drive is the main system magnetic storage device. It is a Winchester-type sealed drive with a useable capacity of 67 million bytes. System software and all subscriber-related data are stored in this memory. The Winchester Drive is controlled by the computer. Space is reserved in the cabinet for an additional drive, if required, by expanding the system.

Keyboard Printer Terminal

The Digital Equipment Corporation printer terminal is under the control of the system computer and prints reports on operator demand. The printer keyboard is used only during the power turn-on procedure. Other than being fed with paper at appropriate intervals and occasionally replacing the ribbon, the LA120RA requires a minimum of attention. Additionally, system errors are printed on this device for reference purposes. These can be "transient errors" that are intended for diagnostic purposes or fatal errors that preclude system operation.

Video Keyboard Terminal

The Digital Equipment Corp. Video display terminal within the AH-4 is a cathode-ray display device with a detachable keyboard. The AH-4 is operated from this terminal. The keyboard is the input device through which an operator enters data and commands. The video screen is the output device which displays data going to and coming from the computer.

A keypad with special function keys provides single keystrokes for operator commands. The number, title, and function of each of these keys is:

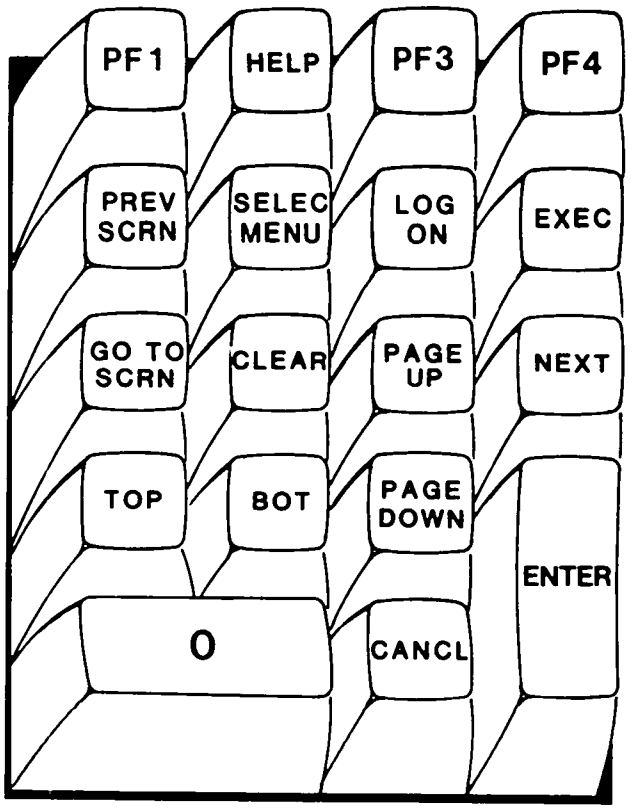

FIGURE 1-3. SPECIAL FUNCTION KEYS

NO.	TITLE	FUNCTION
0	—	Inactive.
1	TOP	Moves cursor to top of screen — first field or start of paging area if on screen.
2	BOT	Moves cursor to bottom of screen — last field or start if paging area is on screen.
3	PAGE DOWN	Moves display down in line increments. (Number variable depending on screen).
4	GO TO SCRN	Displays the screen requested by ID number. This key provides an alternative to the screen access through the menu system. It is valid only on a menu screen.
5	CLEAR	Clears data from all fields and re-displays screens.
6	PAGE UP	Moves display up in line increments. (Number variable depending on screen.)
7	PREV SCRN	Return to screen which preceded present screen. Usually returns to the last menu
8	SELEC MENU	Returns the user to the Selection Menu screen.
9	LOG ON	Returns the user to the Logon screen.
—	EXEC	Transfer screen data entries into the system or performs the screen function.
	CANCL	Cancels action and returns to previous menu.
	HELP	Provides assistance information for field or screen. There are two levels of help: one level gives help in entering information in a given field. The second level gives general information about the function.
	NEXT	Enables the user to scan quickly through subscriber or pay service information. For example, if the original information was called up by subscriber ID pressing the NEXT key would display the information for the next subscriber in the system

NOTE

Keys PF1, PF3, PF4, and ENTER are inactive.

There are special-purpose function keys located on the main keyboard but which perform special functions. They are:

NEXT FIELD	Advances the cursor to the next field.
PREVIOUS FIELD	Moves the cursor back to the previous field.
DELETE FIELD	Clears contents of the field.
DELETE CHARACTER	Deletes the last character entered in the current field.
RETURN	Processes contents of the current field and moves to the next field.
DELETE CHARACTER	Deletes the last character entered in the current field.
RETURN	Processes contents of the current field and moves to the next field.

See Figure 1-3.

1.2.3 Software Features

The AH-4's software is a stored program that drives and controls each custom system.

The software has six features

Clarity

The system software is user oriented. Its format provides maximum ease in interpreting screen displays. Terminology is carefully chosen to convey clear and precise information to the operator.

"User-friendliness"

Help messages are also available to the operator When "stuck"or in doubt about what to enter, pressing the "HELP" key will give the operator access to a screen with descriptive information pertinent to the screen with which there is trouble. When finished, pressing the "RETURN" key will return the operator to the screen with which the operator was working. The operator may then continue with the function.

Safety

Critical operations (such as deleting a subscriber) require a two-step response. This avoids serious problems caused by oversight or tampering. For example, if a feature enables you to delete a subscriber, a check question "Are you sure?" is required before you can delete a subscriber.

Security

The password system offers maximum security. Each cable operator can be assigned a password that permits access only to those functions that management considers necessary. The password screen has space for passwords for forty-nine separate operators.

Menu driven

The system is "menu driven." Each of the capabilities in the system belongs to a logically arranged group of similar operations. Each collection of operations is called a "menu." This orderly arrangement facilitates operations and enables the user to understand the system faster.

Compatibility

The AH-4 is compatible with all Jerrold addressable converters, those already existing and those being developed. It operates wih all addressable variations of the STARCOM II, STARCOM IV, STARCOM V, STARVUE, and outdoor and indoor IntraNet.

The system also can support cable operations that have one-way systems only, two-way systems only, or those having both one- and two-way converters in their operations.

The AH-4 controller can be hooked up through a wire link which is connected to a billing machine. The connection allows many of the functions to be directed from the customer service machines and eliminates dual entry need. The hook-up with the customer service machine reduces the number of discrepancies and provides more operator service capabilities through the video display terminal.

1.3 OPERATION

This section gives the user the instructions needed to operate and work with the system. It contains two parts: a Section 1.3.1 contains instructions on starting or restarting the system, Section 1.3.2 explains how to use the AH-4's video display terminal (VDT) and keyboard. This section also contains a walk-through exercise to make the user familiar with the equipment.

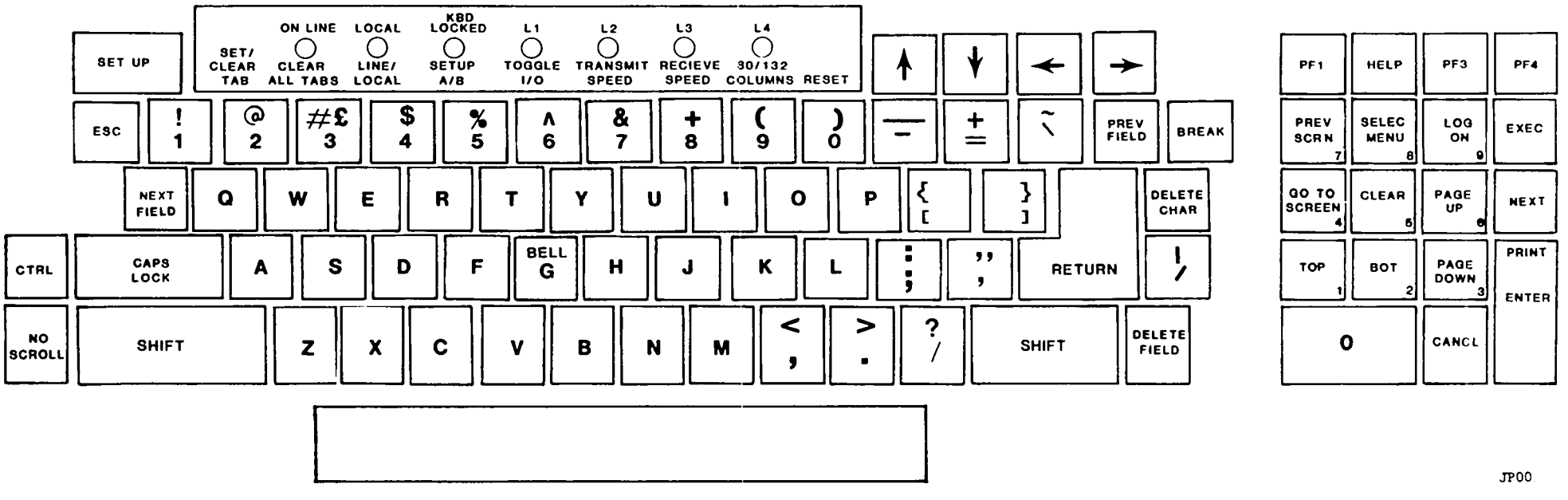

FIGURE 1-4. AH-4 KEYBOARD

1.3.1 Restarting or Rebooting the System

a. Go to the microcomputer. (Figure 1-5)

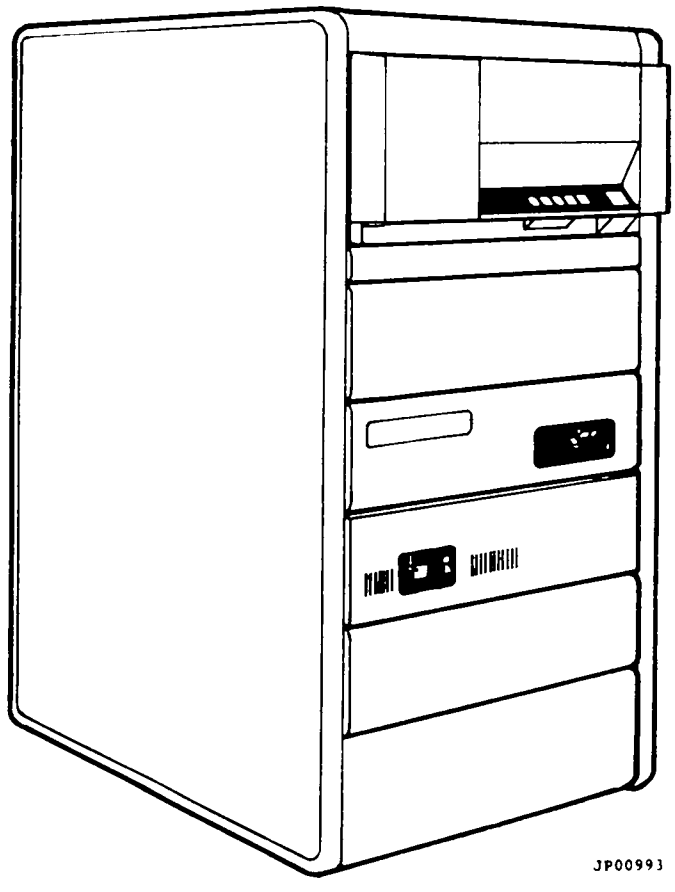

FIGURE 1-5. MICROCOMPUTER

b. Make sure that the HALT and AUX ON/OFF are in the "on" position (i.e., up). (Figure 1-6)

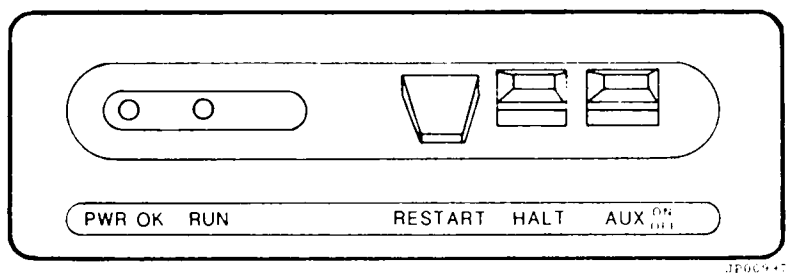

FIGURE 1-6. HALT SWITCH

c. Push the restart switch up. The printer will then print out start-up information and ask if the date and time are correct.

1. If they are **not** correct, enter the correct date and time on the printer and then press the ⟨RETURN⟩ key.
2. If they are correct, press Y ⟨RETURN⟩.The system will proceed with the start-up procedure automatically.

If the system loses and regains power (i.e., a power outage), the system will respond in the same manner as if the operator had pushed the restart switch as in step 1.3.1c. If the system is unattended, the system will wait 30 seconds for a response to the time at which time a NO is not received, a Y is assumed and the system is automatically restored to full operation. This is called the power fail/restart feature.

1.3.2 Communicating with the AH-4

This section is written to enable the cable operator to become familiar with the Video Keyboard Terminal. This section will:

- show how to use the terminal
- show how to give the system commands,
- familiarize the user with the messages received from the system.

NOTE

Make sure the AH-4 is installed and started up before performing these exercises

1.3.2 continued

Cable system employees and the AH-4 communicate with each other through the keyboard and video display terminal. Cable system employees "type" in commands or information through the keyboard. This information is displayed on the video display. The AH-4 communicates with the user through the screen, sending messages and displaying information through it. The following terminclogy is used throughout this manual:

Function
Any operation (shutdown system, adding a new pay service) the cable system employee can perform through the AH-4. There are over 100 functions in this system with new functions being added periodically as part of a continuous development activity. These will be made available through scheduled upgrades when new software releases are available.

Screen
The image that appears on the video display terminal. A function can be composed of several screens. Additionally, several functions have "help" screens to aid the user.

Cursor
The blinking rectangle on the screen. This "light" indicates where the user is on the screen for data entry purposes.

1.3.2.1 Documentation Conventions

Instructions in this manual are written as follows:

Procedure

a. Type in the converter serial number ⟨RETURN⟩. The cursor will now move to the subscriber ID (sub ID) field.

This means that the user should type in a converter serial number from the system and press the ⟨RETURN⟩ key. The system will respond to the command by moving the cursor to the subscriber ID field.

NOTE

Any key, whether on the keyboard or special purpose keypad,which must be used to make a function operate, is enclosed in brackets ⟨ ⟩ and written in upper case letters. The Special Purpose keys are explained in Section 1.3.2.10.

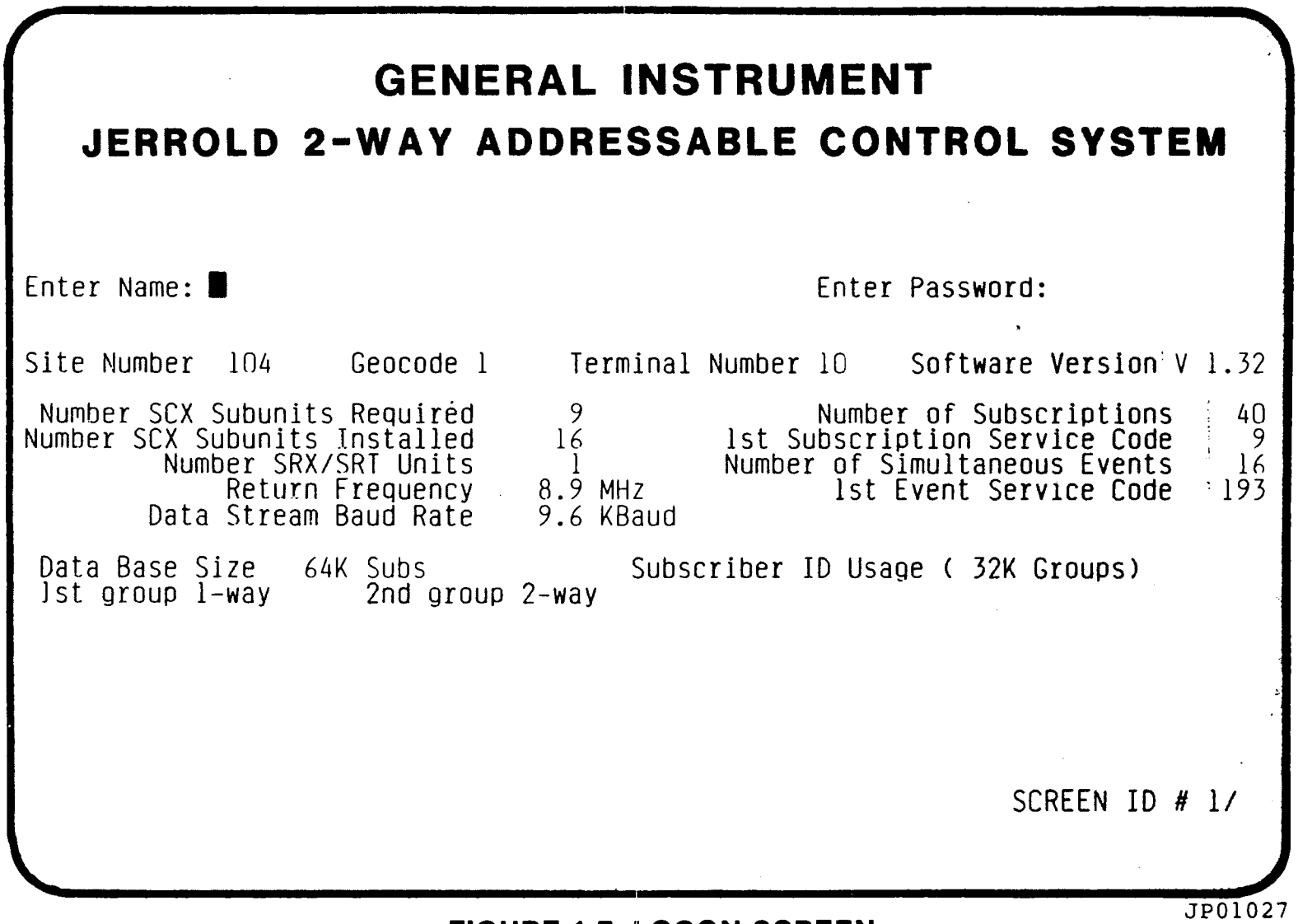
GENERAL INSTRUMENT
JERROLD 2-WAY ADDRESSABLE CONTROL SYSTEM
Enter Name:
Enter Password:
Site Number 104 Geocode 1 Terminal Number 10 Software Version V 1.32
Number SCX Subunits Required 9
Number SCX Subunits Installed 16
Number SRX/SRT Units 1
Return Frequency 8.9 MHz
Data Stream Baud Rate 9.6 KBaud
Number of Subscriptions 40
1st Subscription Service Code 9
Number of Simultaneous Events 16
1st Event Service Code 193
Data Base Size 64K Subs
1st group 1-way
2nd group 2-way
Subscriber ID Usage (32K Groups)
SCREEN ID # 1/

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FIGURE 1-7. LOGON SCREEN

1.3.2.2 Capital and Small Letters

In regular typing, capital and small letters are important. In the AH-4, it does not matter if you enter capitals or small letters because when you press the ⟨RETURN⟩ key and the system accepts what you have typed in, the character will automatically be changed to upper case.

1.3.2.3 Familiarity Exercise

In this section, the user will become familiar with the special purpose keypad, the way to operate the screens, and the messages the system will give.

1.3.2.4 Screen Description

This section will make the user familiar with the screen format. The AH-4 screens are similar to a printed paper form in which blank spaces are left for information to be filled in. The point or "line" on which the user types in information is called a "field." See Figure 1-7 and also look at the terminal. The cursor indicates which field the user is currently occupying. In this case, the cursor is in the Password Field. The cursor moves after information is entered in the system. The cursor also moves when directed to do so by the ⟨NEXT FIELD⟩ and ⟨PREVIOUS FIELD KEYS⟩ keys.

The screen on display now should be the Log On Screen. Look at the number in the lower right-hand portion of the screen. This is the password screen's ID number. Each function on the AH-4 has a specific screen number.

NOTE

Throughout this manual, when a function is mentioned, its screen ID number will follow it in parenthesis.

1.3.2.5 Getting Into the Functions

To get into the system's various functions, a password must be used. A password is similar to the secret word that opened the cave in the story "Ali Baba and the Forty Thieves." "Open Sesame" gave the poor woodcutter access to the treasure of the 40 thieves in the cave. In this case, passwords will give access to the functions of the AH-4.

Procedure

a. Enter the password assigned and press the ⟨RETURN⟩ key (refer Figure 1-4 for location of this key). Screen #2, the Selection Menu, will appear on the screen.

1.3.2.6 Screen Features

Each screen on the AH-4 has similarities: screen title, menu or sub menu to which it belongs, help scroll, and the earlier mentioned screen ID number. The title of this screen is Selection Menu. Beneath this title is the name of the menu or sub menu to which the screen belongs. (In this case, the Selection menu screen follows the Password Screen in the system.) Note also the help scroll; most functions in the system have a "Help scroll" reminding the user to press "help" if stuck or in doubt with what to enter. Note also the screen ID number, mentioned earlier.

1.3.2.7 About The Menu System

Menu

On the screen are numbers with titles beside them. These 11 entries are called "options." A menu screen contains a list of options from which the user can choose, much like the menu in a restaurant.

The complete listing of the menus and their interrelationship is found on Table 4-1.

1.3.2.8 Asterisk

Note that some menus have an asterisk and some do not. An asterisk next to an item indicates the user can get into this menu or a function. Asterisks appear next to the menu when they are authorized by the Password Screen (205).

The user cannot get into a menu or a function that does not have an asterisk. If the user tries to work on a function that does not have an asterisk, the system will send an error message saying the user is not authorized to work in a function.

1.3.2.9 Accessing A Function Through the Menu Structure

As mentioned earlier, the AH-4 software system is controlled through menus. Each function is part of a sub-menu which, in turn, is part of a menu. For example, the Add New Subscriber (4) function belongs to the Subscriber Service Menu (154).

This exercise will show you how to get to the "Add New Subscriber" (4) function by working through the menu structure.

On the screen is the Selection Menu.

a. Type in 2 ⟨RETURN⟩. Screen 154, the Subscriber Service Menu is displayed. The cursor will blink at the option entry field.
b. Type in 1 ⟨RETURN⟩. The Add New Subscriber (4) function screen is displayed with the cursor blinking at the serial number field.

As shown in this section, the "Add New Subscriber" (4) function may be accessed through the menu structure.

When actually operating the system, the user will want to leave a function and return to a menu. There are two ways of doing this: by using the ⟨PREVIOUS SCREEN⟩ special purpose key or the ⟨SELECTION MENU⟩ special purpose key. The next section will show how to use these keys.

ADD NEW SUBSCRIBER
(From Subscriber Service Menu)

Converter Type: 6
Serial No.: J5A0000205 Subscriber ID: 656 Account No.: BX-0000116
Activate(Y/N) : Y Converter Status : Time Out : 128
Install Date : 12/20/84 Remote Unit : Y Emergen, Alert : NN-NN-NN-N
Purchases(Y/N) : Y Credit Limit : 16 Time Zone : 0
Tuning Type(H,I,S) : S Channel Cross Ref : I PC-Morality(Y/N) : Y
Output Chan 3 (Y/N): Y PC Lock(Y/N) : Y Last Channel(Y/N) : Y
Volume Control(Y/N): Y Time Display(Y/N) : Y Responding : N
Data Test (Y/N) : Y Initialized : N

Service(Y/N)		Description	Price
Y	1[S]	HBO SVCCODE 23	007.50
	2[S]	BRAVO SERVICE CODE 9	009.95
Y	4[S]	DISNEY CHANNEL SVC CODE 12	005.95
	5[S]	SHOWTIME SVCCODE 14	009.95
	6[S]	HTN SVCCODE 32	009.95
	8[S]	MONDAY NIGHT FOOTBALL 12/09	005.00
Y	10[S]	MTV SVCCODE 20	003.75
	13[P]	BASIC SERVICES	015.95

SCREEN ID # 4/

FIGURE 1-8. ADD NEW SUBSCRIBER

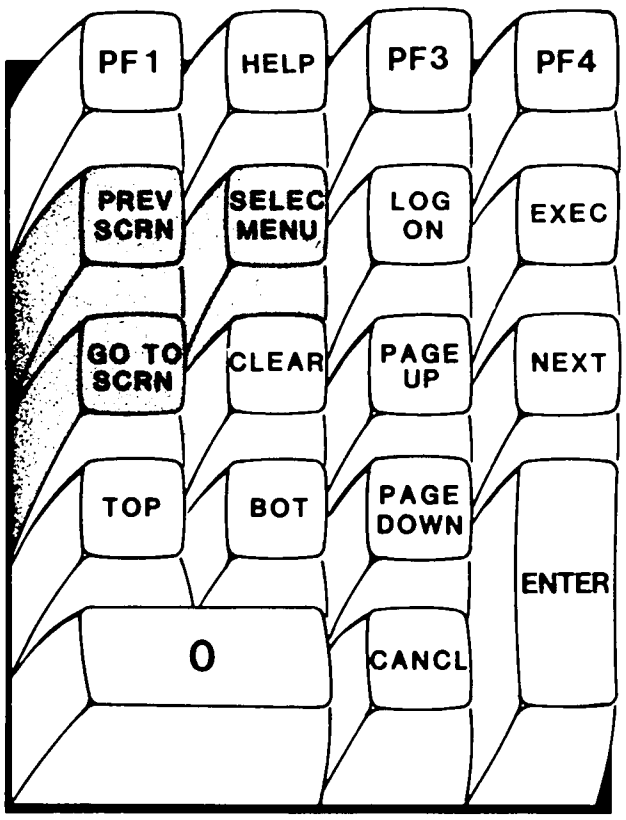
JP01028

1.3.2.10 ⟨PREVIOUS SCREEN⟩ Key

The ⟨PREVIOUS SCREEN⟩ key (See Figure 1-9) permits you to go to the sub-menu to which the active screen belongs.

Procedure

a. Press the ⟨PREVIOUS SCREEN⟩ key. The Subscriber Services Menu will appear.



JP00999

FIGURE 1-9. SPECIAL FUNCTION KEYPAD DEMONSTRATION

1.3.2.11 ⟨SELECTION MENU⟩ Key

No matter which function or menu you are in, the ⟨SELECTION MENU⟩ (See Figure 1-9), key enables you to go directly to the Selection Menu screen.

Procedure

a. Press the ⟨SELECTION MENU⟩ key. The Selection Menu will now appear on your screen.

1.3.2.12 ⟨GO TO SCREEN⟩ Key

While you can get to a function through the menu structure, the AH-4 offers a shorter more direct route through the ⟨GO TO SCREEN⟩ special purpose key. By entering the screen ID number and pressing the ⟨GO TO SCREEN⟩(See Figure 1-9) key, the desired function will be displayed on the terminal.

NOTE

The ⟨GO TO SCREEN⟩ key works only when you are in a menu or sub-menu screen. It will not work in a function, e.g., "Add New Subscriber."

Procedure

To complete this next exercise you will need to go to the "Add New Subscriber" screen. Go to this screen by pressing "4 ⟨GO TO SCREEN⟩."

1.3.2.13 ⟨RETURN⟩ Key

The ⟨RETURN⟩ key is one of the most useful keys in the keyboard. It instructs the system to accept information entered by the user.

Nearly every command in the system requires the ⟨RETURN⟩ key to be used after information is entered.

1.3.2.14 System Error Messages

Occasionally the user will receive a message from the system. The message will be one of two types: information or error.

An information message sends information about the system such as that the system is carrying out the function, taking a poll, or searching for information.

An error message indicates that an error has been committed. An error could be that information was entered inaccurately or that an incorrect command key was pressed. Both information and error messages are designed solely to aid in working with the system. The exercise in the next section will show an error message.

Exercise

NOTE

Prior to performing this procedure, make sure the number in the converter type field matches the converter for the subscriber being added. Use the table below for reference.

Converter Type Table

1 = STARCOM 400 - 1 Way
2 = STARCOM 450 - 1 Way
3 = STARCOM 450 Phase 3.5 - 1 Way
4 = STARVUE - 2 Way
5 = STARCOM 5 - 1 Way
6 = STARCOM 5 - 2 Way

If the match is not correct, press the ⟨PREVIOUS FIELD⟩ key. The cursor will move to the converter type field. Enter the number that matches the same type as the converter being added ⟨RETURN⟩ . Proceed with the instructions below.

1.3.2.14 continued

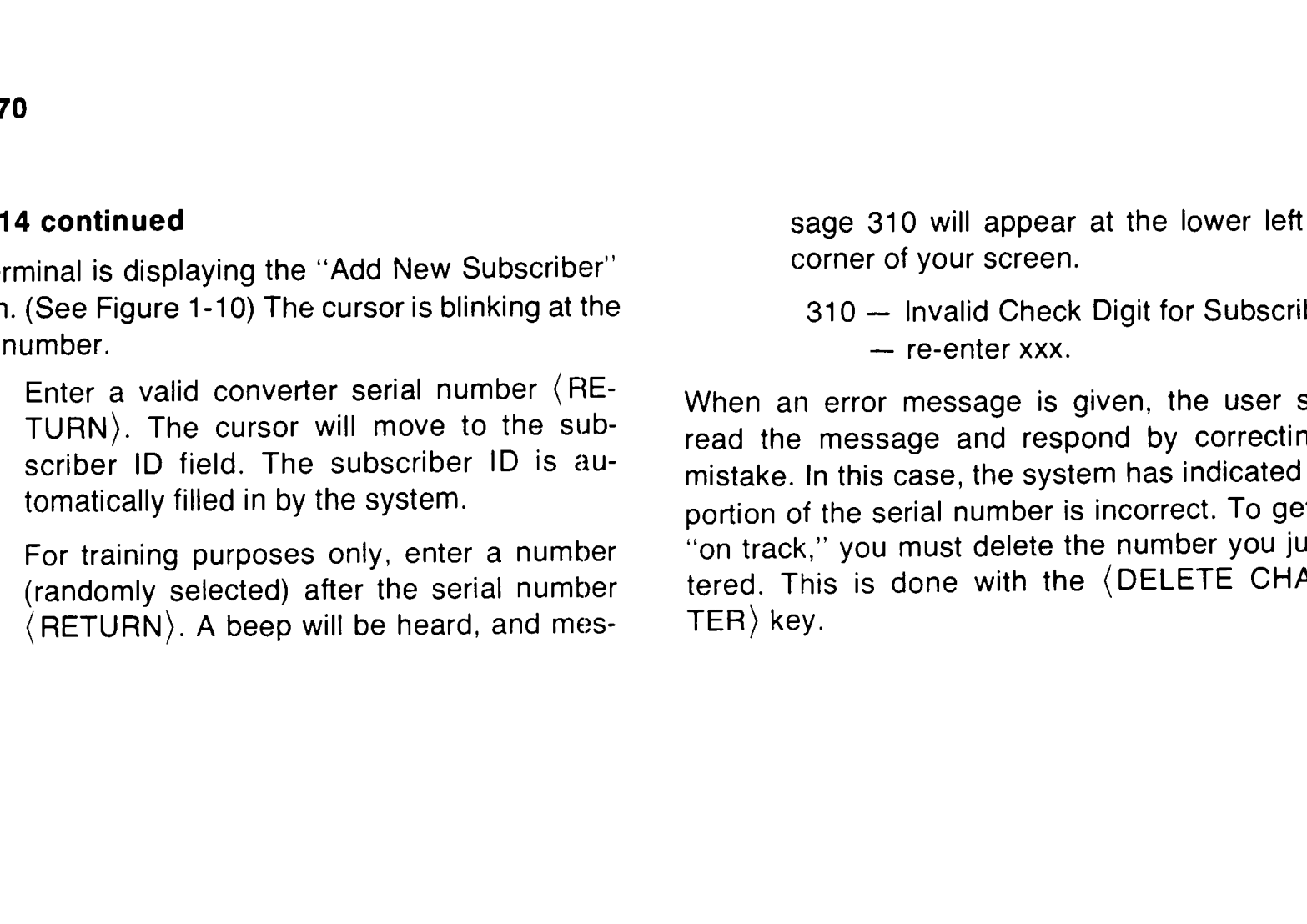
The terminal is displaying the "Add New Subscriber" screen. (See Figure 1-10) The cursor is blinking at the serial number.

a. Enter a valid converter serial number ⟨RETURN⟩. The cursor will move to the subscriber ID field. The subscriber ID is automatically filled in by the system.

b. For training purposes only, enter a number (randomly selected) after the serial number ⟨RETURN⟩. A beep will be heard, and message 310 will appear at the lower left hand corner of your screen.

   310 — Invalid Check Digit for Subscriber ID
   — re-enter xxx.

When an error message is given, the user should read the message and respond by correcting the mistake. In this case, the system has indicated that a portion of the serial number is incorrect. To get back "on track," you must delete the number you just entered. This is done with the ⟨DELETE CHARACTER⟩ key.


ADD NEW SUBSCRIBER
(From Subscriber Service Menu)
Converter Type: 6
Serial No.: J5A0000205
Subscriber ID: 656
Account No.: BX-0000116
Activate(Y/N) : Y
Converter Status : _
Install Date : 12/20/84
Remote Unit : Y
Time Out : 128
Purchases(Y/N) : Y
Credit Limit : 16
Emergen, Alert : NN-NN-NN-N
Tuning Type(H,I,S) : S
Channel Cross Ref : I
Time Zone : 0
Output Chan 3 (Y/N): Y
PC Lock(Y/N) : Y
PC-Morality(Y/N) : Y
Volume Control(Y/N): Y
Time Display(Y/N) : Y
Last Channel(Y/N) : Y
Data Test (Y/N) : Y
Initialized : N
Responding : N
Service(Y/N)
Description
Price
Y 1[S] HBO SVCCODE 23 007.50
2[S] BRAVO SERVICE CODE 9 009.95
Y 4[S] DISNEY CHANNEL SVC CODE 12 005.95
5[S] SHOWTIME SVCCODE 14 009.95
6[S] HTN SVCCODE 32 009.95
8[S] MONDAY NIGHT FOOTBALL 12/09 005.00
Y 10[S] MTV SVCCODE 20 003.75
13[P] BASIC SERVICES 015.95
SCREEN ID # 47

JP01028

FIGURE 1-10. ADD NEW SUBSCRIBER

1.3.2.15 Delete Character

Occasionally you will want to delete or "erase" a character you have entered in a field. The ⟨DELETE CHARACTER⟩ key will enable you to do this. Press the ⟨DELETE⟩ key twice. The two numbers at the right-hand side of the screen will be "erased." This key is useful only if the character you wish to delete is close to the right-hand side of the field. If the character you wish to delete is to the left, you should use the ⟨DELETE FIELD⟩ key. This key is explained in section 1.3.2.18.

1.3.2.17 ⟨ PREVIOUS FIELD ⟩ Key

When operating the AH-4, the user will occasionally need to go back to a field. The ⟨PREVIOUS FIELD⟩ (See Figure 1-11) key enables the user to go back to earlier fields without altering their information.

Procedure

1. Press the ⟨PREVIOUS FIELD⟩ key. The cursor has gone back to the "Subscriber ID" field.
2. Press the ⟨PREVIOUS FIELD⟩ key again. The cursor has gone back to the converter serial number.
   Note that the cursor has gone back two fields and that no information was changed.

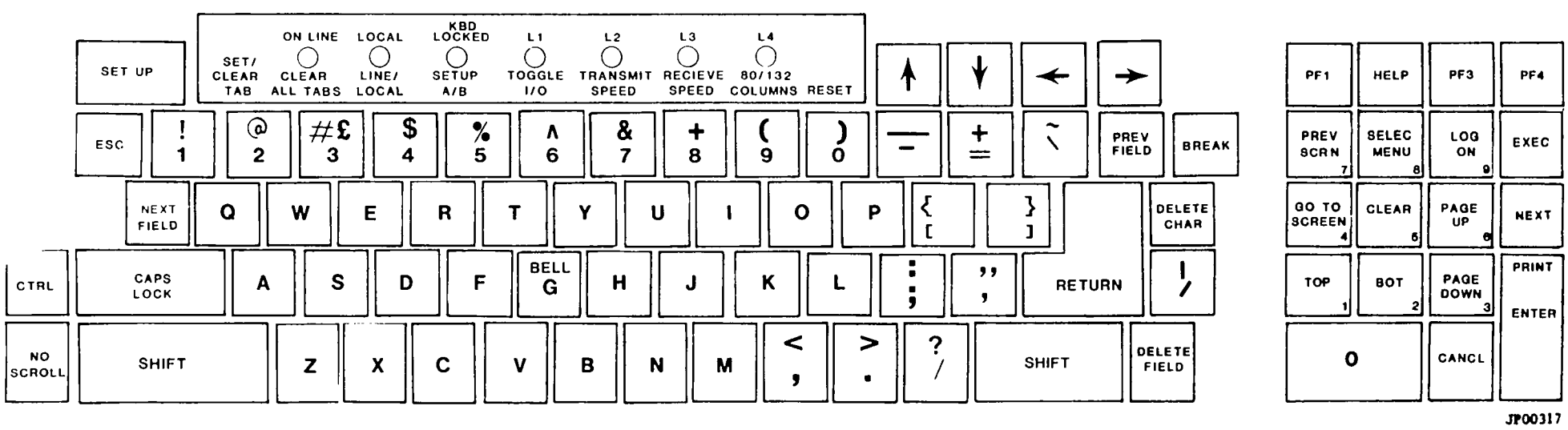


FIGURE 1-11. AH-4 KEYBOARD DEMONSTRATION

1.3.2.16 ⟨ NEXT FIELD ⟩ Key

Occasionally, the cursor will enter a field and the user will not need to do anything to it. The subscriber IDentification (sub ID) field is one of these. The user, however, will need to move out of the field to work in other portions of the screen. The ⟨NEXT FIELD⟩ (See Figure 1-11) key enables the user to do this.

Procedure

1. Press the ⟨NEXT FIELD⟩ key. The cursor will move to the account number field.

1.3.2.18 ⟨DELETE FIELD⟩ Key

On some occasion you will want to delete the entire field. The ⟨DELETE FIELD⟩ (See Figure 1-11) key will enable you to do this.

Procedure

1. Press the ⟨DELETE FIELD⟩ key. All the information in the converter serial number field will be deleted.

To continue with this exercise, re-enter this information and press the ⟨RETURN⟩ key. You will now be in the sub ID field. Press the ⟨PREVIOUS FIELD⟩ key. You will now be at the converter serial number field.

1.3.2.19 Arrows and Space Bar

Note the arrows at the top of the keyboard. They correspond roughly to the directions of the compass and for this reason, are called north, south, east, and west arrows. The north and south arrows are not activated in this system. (See Figure 1-12) The east and west arrows will enable you to go left and right without changing the text. Press the left directional. You will see the cursor move and see that the information on the screen does not change.

In contrast, now press the space bar located beneath the keyboard (See Figure 1-4). Note that the information on the screen has been deleted.

1.3.2.20 ⟨CLEAR⟩ Key

Summary

On occasion, you will wish to clear all of the fields in your screen completely. The ⟨CLEAR⟩ (See Figure 1-21) feature will do this.

Procedure

1. Press ⟨CLEAR SCREEN⟩ key. The screen will clear itself completely except for default information and the cursor will be blinking at the first field.
2. Re-center the converter serial number ⟨RETURN⟩.

1.3.2.21 ⟨BOTTOM⟩ Key

Many screens on the AH-4 have two sections: display and paging. (See Figure 1-22). On occasion, the user will want to go to the first field in the paging section while still in the display area. The ⟨BOTTOM⟩ key will enable the user to move there directly.

1. Press ⟨BOTTOM⟩. The cursor is now at the top of the paging section.

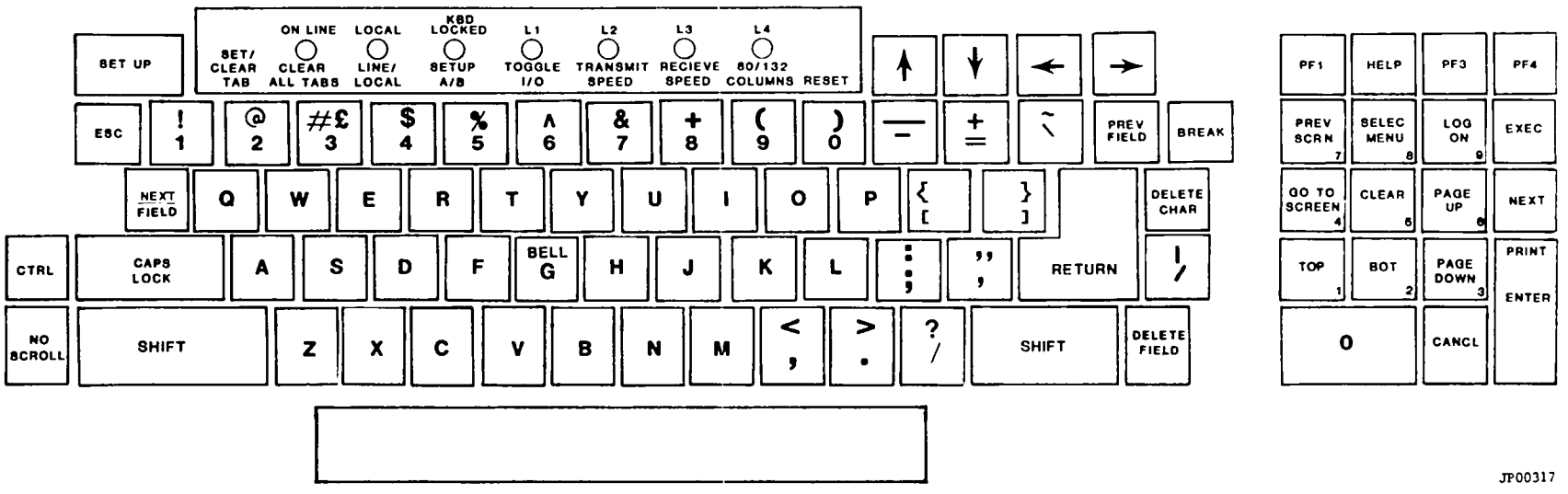


FIGURE 1-12. AH-4 KEYBOARD DEMONSTRATION

1.3.2.22 ⟨TOP⟩ Key

The user will also occasionally want to go to the top of the display section. The ⟨TOP⟩ (See Figure 1-13) key will enable the user to move there directly.

1. Press the ⟨TOP⟩ key. The cursor will now blink at the converter type field.

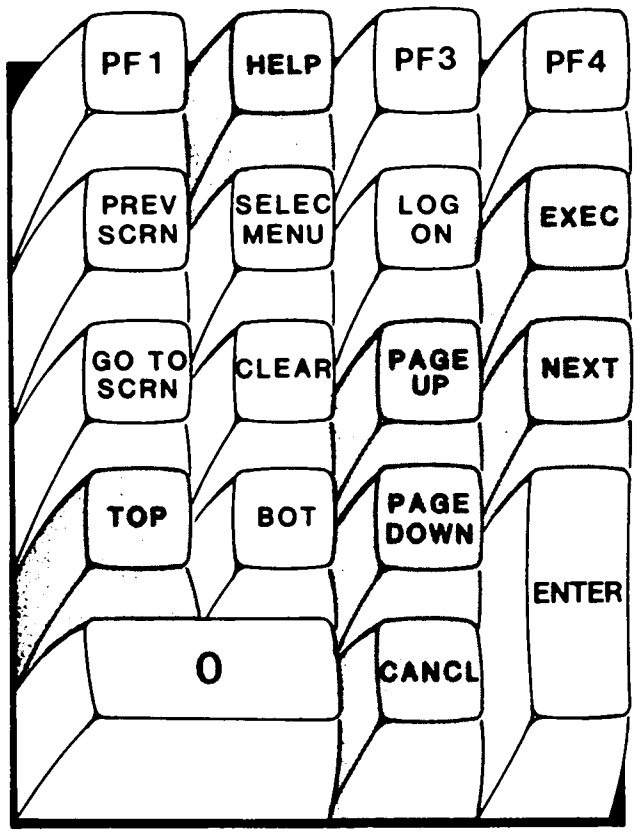


FIGURE 1-3. SPECIAL FUNCTION KEYPAD DEMONSTRATION

1.3.2.23 PAGE UP/PAGE DOWN

⟨ PAGE UP ⟩ Key

This enables the user to go to the top of a field in the paging area **from** any field in the paging area.

1.3.2.24 ⟨PAGE DOWN⟩ Key

This enables the user to go to the lowest completed field from any field in the paging area.

1.3.2.25 ⟨CANCEL⟩ Key

This key (See Figure 1-13) is used primarily in polls. It enables the user to stop a procedure or leave the display area.

NOTE
The ⟨CANCEL⟩ key will not get the user out of a screen. The ⟨PREVIOUS SCREEN⟩, ⟨SELECTION MENU⟩ keys provide these capabilities.

1.3.2.26 ⟨EXECUTE⟩ Key

The execute key (See Figure 1-13) is similar to the return key in that it accepts the information you have entered and implements it into the system.
It is to be used only after all information to be entered on a screen is completed.

1.3.2.27 ⟨NEXT⟩

This key (See Figure 1-13) is used to quickly scan through subscriber or pay service information. For example, if the original information was called up by subscriber 115, pressing the NEXT key would display the information for the next subscriber ID in the system.

1.3.2.28 ⟨HELP⟩ Key

One of the most widely used features of the AH-4 is the ⟨HELP⟩ key. The user can get assistance if stuck in the system. Pressing the ⟨HELP⟩ key will display the accessory screen that will clarify questions about a function. Use the ⟨RETURN⟩ key to get out of the help key and into the regular screen. Help screens for each function follow the operating instructions.

1.3.2.29 No Scroll

The No Scroll (See Figure 1-14) key essentially freezes the screen. No data can be entered or deleted when this screen is activated. Additionally, the screen cannot display information sent to it by the system.

This key is activated by pressing it once. To deactivate it, press it another time.

The no scroll key is normally not used.

Do not touch this key.

1.3.2.30 Passwords

One of the first responsibilities of the cable system operator will be to assign passwords.

Each operator on the system should have a unique password. Up to 49 operator passwords can be entered. Operator access to each individual screen is controlled through the password. In this screen, the operator password and access rights are established. Operator number 1 on the system always has access to all menu items; — the password may be changed, but the access privileges will not be. The system owner or main operator should use this password. This screen also associates the operator name and password with the operator number used for activity logging.

The passwords may be from 1 to 10 characters in length, and the operator name specified can contain up to 30 characters.

Since password access can be specified for each individual screen in the system, the update password screen presents the selection menu first, and allows the person entering the access privileges to choose the items on the selection menu for access. Once that is completed, the first menu item selected from the selection menu is displayed and the operator chooses the screens or menus on it for access. This operation is repeated for every item selected on the selection menu and is presented in the following order. The screen descriptions are listed in the following sections in the order in which they would be presented if access to all screens was permitted.

1.3.2.31 Backup/Restore

Performing a data back-up is critical to smooth operation of the AH-4. A back-up must be performed every day. (Basically, a back-up is copying the information from the system to the magnetic tape.) Information must be copied because, if the system crashes, the information might be lost. This could potentially cause loss of revenue if information pertinent to billing is lost.

In large systems, several tapes may be needed for the day's back-up procedure. Should more than one tape be required, the system will prompt the user when to remove the completed tape and put in a new one.

Depending on the size of the system, the procedure will take between twenty minutes and two and a half hours. Performing a backup will save time in the long run. Section 3.231 (Backup to Magnetic Tape) contains instructions for the procedure. Instructions for loading and unloading the magnetic tape are contained in the section immediately following this paragraph.

1.3.2.32

To load the magnetic tape on the AH-4.

1. Push the opaque door down .
2. Verify that the write-enable ring is fully seated in the magnetic tape (Figure 1-14).

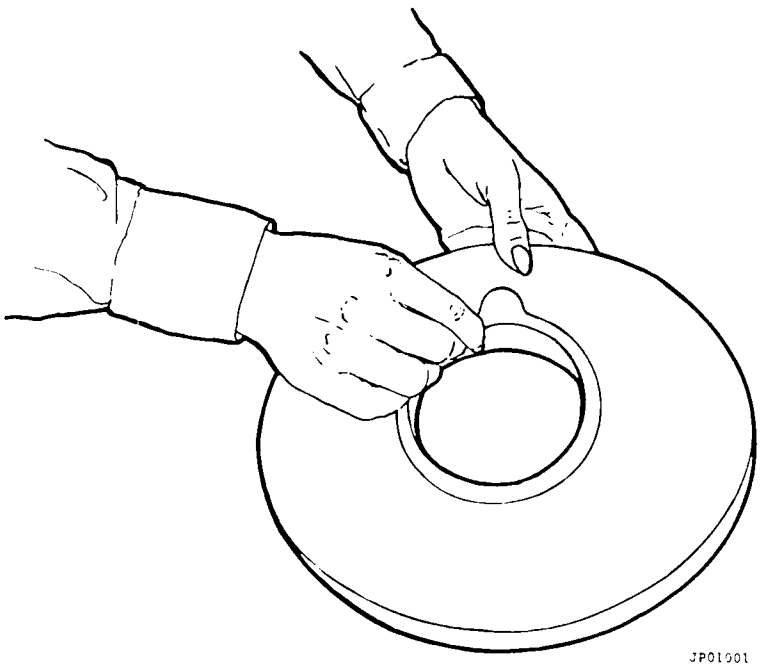
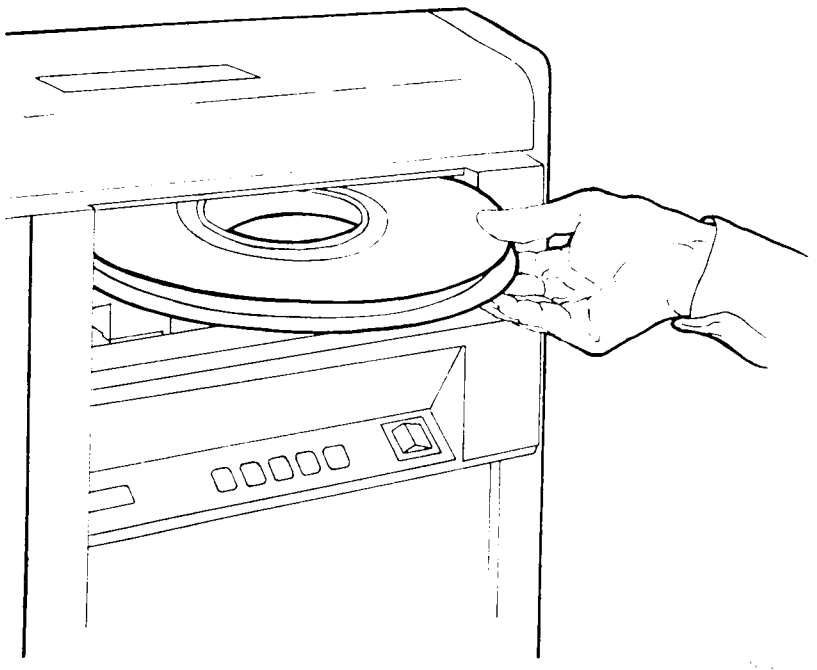


FIGURE 1-14. SEATING THE WRITE ENABLE RING

3. Insert the tape into the slot with the write-enable ring down. The ring will catch on the hub .
4. Close the door .
5. Press the load light . The light will begin to flash.
6. Press the on-line light.
7. Go to screen 231 and follow the procedure outlined in section 3.231.



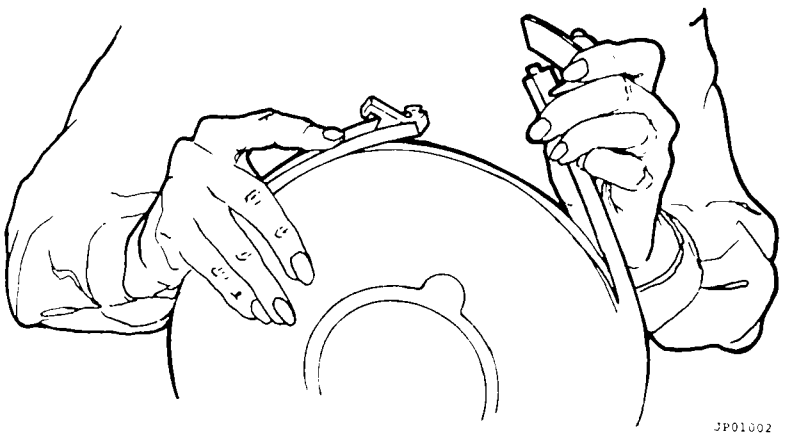


FIGURE 1-15. LOADING THE MAGNETIC TAPE

1.3.2.33

To unload

1. Press the on-line light so that it goes off.
2. Press the Unload switch. The light will blink and the tape will rewind. When the light remains steady, push down the opaque door.
3. Lift the tape up over the hub and pull out.
4. Close the cover.
5. Fasten closing band around tape and store (Figure 1-16).

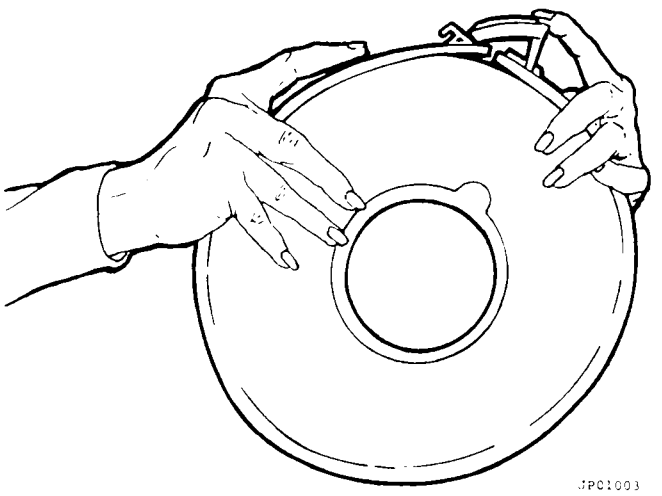


FIGURE 1-16. STORING THE MAGNETIC TAPE

NOTE

Magnetic tapes do not have an infinite lifespan. The actual lifespan depends on the tape, how frequently it is used, and how carefully it is handled. Check with the tape's manufacturer and adhere to their reccomendations.

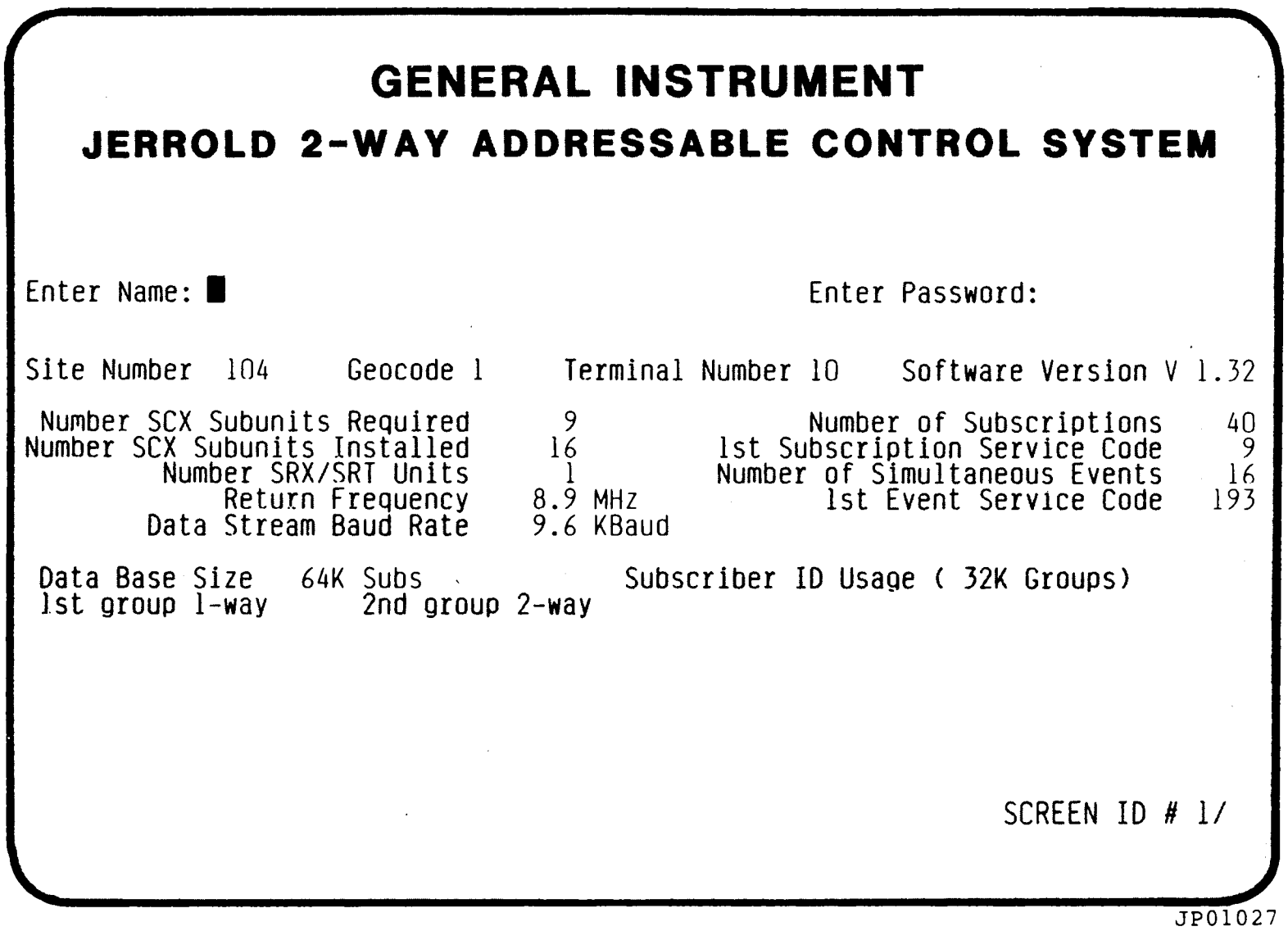
SECTION 2

Section 2 will contain a brief summation of the way each function works and the prerequisites for the function. This section is not included in this edition of the manual but will be in the next update.

3.1 INTRODUCTION

This section contains figures representing individual screens, in sequence, along with functional operational notes pertaining to the screen. Screens are identified by title at the top and by the "SCREEN ID #" at the lower right-hand corner.

There are some screens that have no operating instructions shown. This is because the screen was not implemented at the printing deadline. (It may be operational by the time the manual is printed) There are also some instructions without screens. This indicates the screen is in a state of flux and though the text is fundamentally correct, confusion will reign if joined to such a screen. Finally, due to the continuous updates of the system, the screen images might be slightly different than the illustrations in the manual. These are cosmetic differences only. The operating instructions are still the same.


GENERAL INSTRUMENT
JERROLD 2-WAY ADDRESSABLE CONTROL SYSTEM
Enter Name:
Enter Password:
Site Number 104 Geocode 1 Terminal Number 10 Software Version V 1.32
Number SCX Subunits Required 9
Number SCX Subunits Installed 16
Number SRX/SRT Units 1
Return Frequency 8.9 MHz
Data Stream Baud Rate 9.6 KBaud
Number of Subscriptions 40
1st Subscription Service Code 9
Number of Simultaneous Events 16
1st Event Service Code 193
Data Base Size 64K Subs
Subscriber ID Usage (32K Groups)
1st group 1-way
2nd group 2-way
SCREEN ID # 1/

JP01027

3.1.1 LOGON SCREEN

This is the first screen on the AH-4 system. It accepts the password and gives the user access to functions in the system.

3.1.2 Procedure

a. Type in the password ⟨RETURN⟩. The Selection Menu (2) will come up on the screen.

3.2.1 SELECTION MENU

This function contains the menus that form the backbone of the AH-4. It controls entry to the Addressable Standalone Controller Software. The menus for which the operator is authorized have an asterisk beside them. Authorization for functions is given through the Password function on screen 205.

3.2.2 Procedure

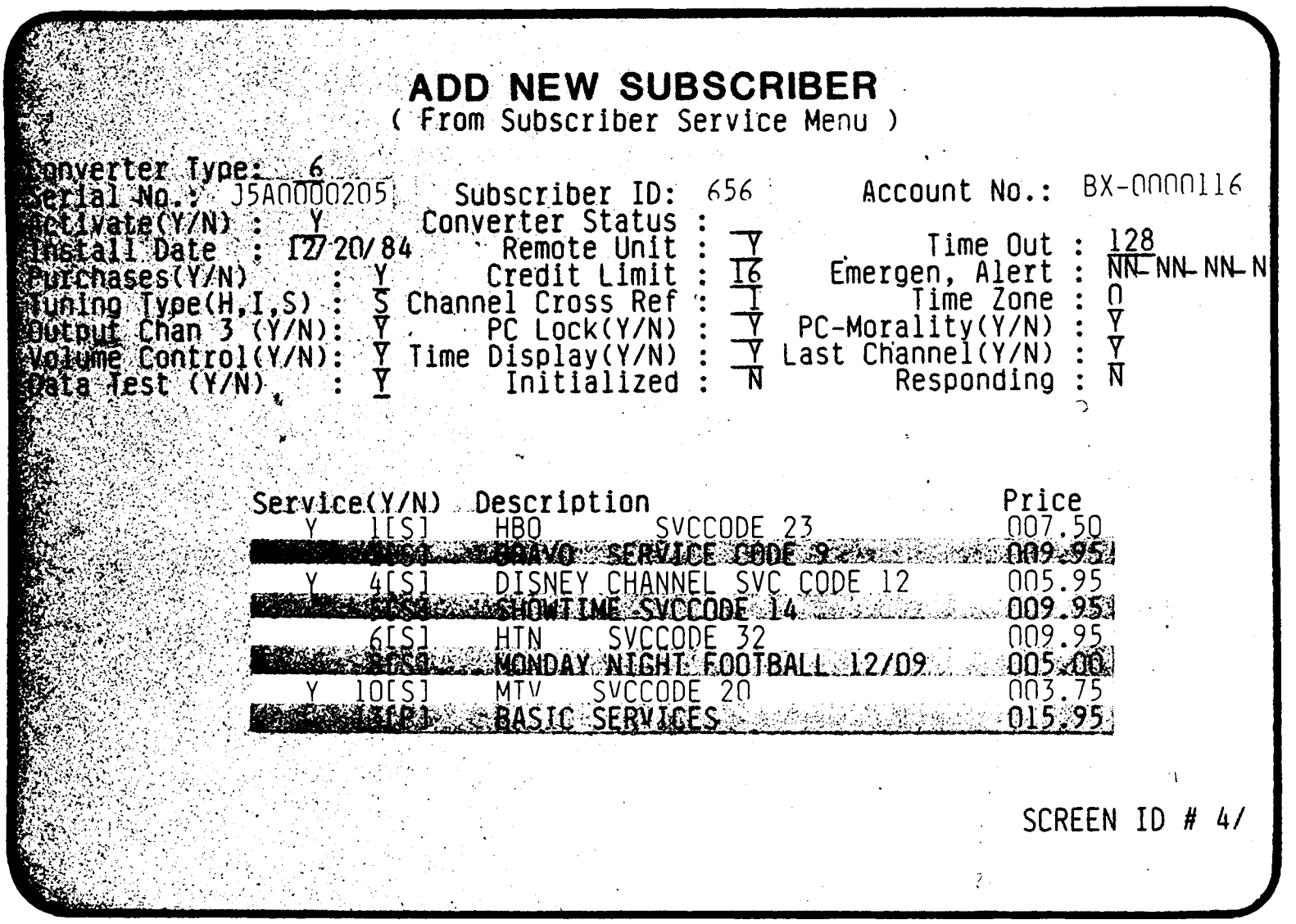
a. Select the menu that will enable you to get to your function. Note the corresponding number.

b. Type in the number ⟨RETURN⟩. The screen you have selected will appear on your terminal.

NOTE

If you know the exact screen number, you may press the screen number and then the ⟨GO TO SCREEN⟩ key.

If you need help in selecting the menu, press the ⟨HELP⟩ key to get a summary of the functions.


ADD NEW SUBSCRIBER
(From Subscriber Service Menu)
Converter Type: 6
Serial No.: J5A0000205
Subscriber ID: 656
Account No.: BX-0000116
Activate(Y/N) : Y
Converter Status :
Install Date : 12/20/84
Remote Unit : Y
Time Out : 128
Purchases(Y/N) : Y
Credit Limit : 16
Emergen, Alert : NN-NN-NN-N
Tuning Type(H,I,S) : S
Channel Cross Ref : I
Time Zone : 0
Output Chan 3 (Y/N): Y
PC Lock(Y/N) : Y
PC-Morality(Y/N) : Y
Volume Control(Y/N): Y
Time Display(Y/N) : Y
Last Channel(Y/N) : Y
Data Test (Y/N) : Y
Initialized : N
Responding : N
Service(Y/N) Description Price
Y 1[S] HBO SVCCODE 23 007.50
BRAVO SERVICE CODE 9 009.95
Y 4[S] DISNEY CHANNEL SVC CODE 12 005.95
SHOWTIME SVCCODE 14 009.95
6[S] HTN SVCCODE 32 009.95
MONDAY NIGHT FOOTBALL 12/09 005.00
Y 10[S] MTV SVCCODE 20 003.75
BASIC SERVICES 015.95
SCREEN ID # 4/

JP01028

3.4.1 Add New Subscriber

This function enables the user to add a new subscriber to the system.

3.4.2 Procedure

a. Enter the converter's serial number⟨RETURN⟩. The cursor will move to the Subscriber Identification (Sub ID) field. The Sub ID will be assigned by the system. It can, however be over-ridden by the operator.

b. Press the ⟨RETURN⟩ key. The cursor will move to the activate field.

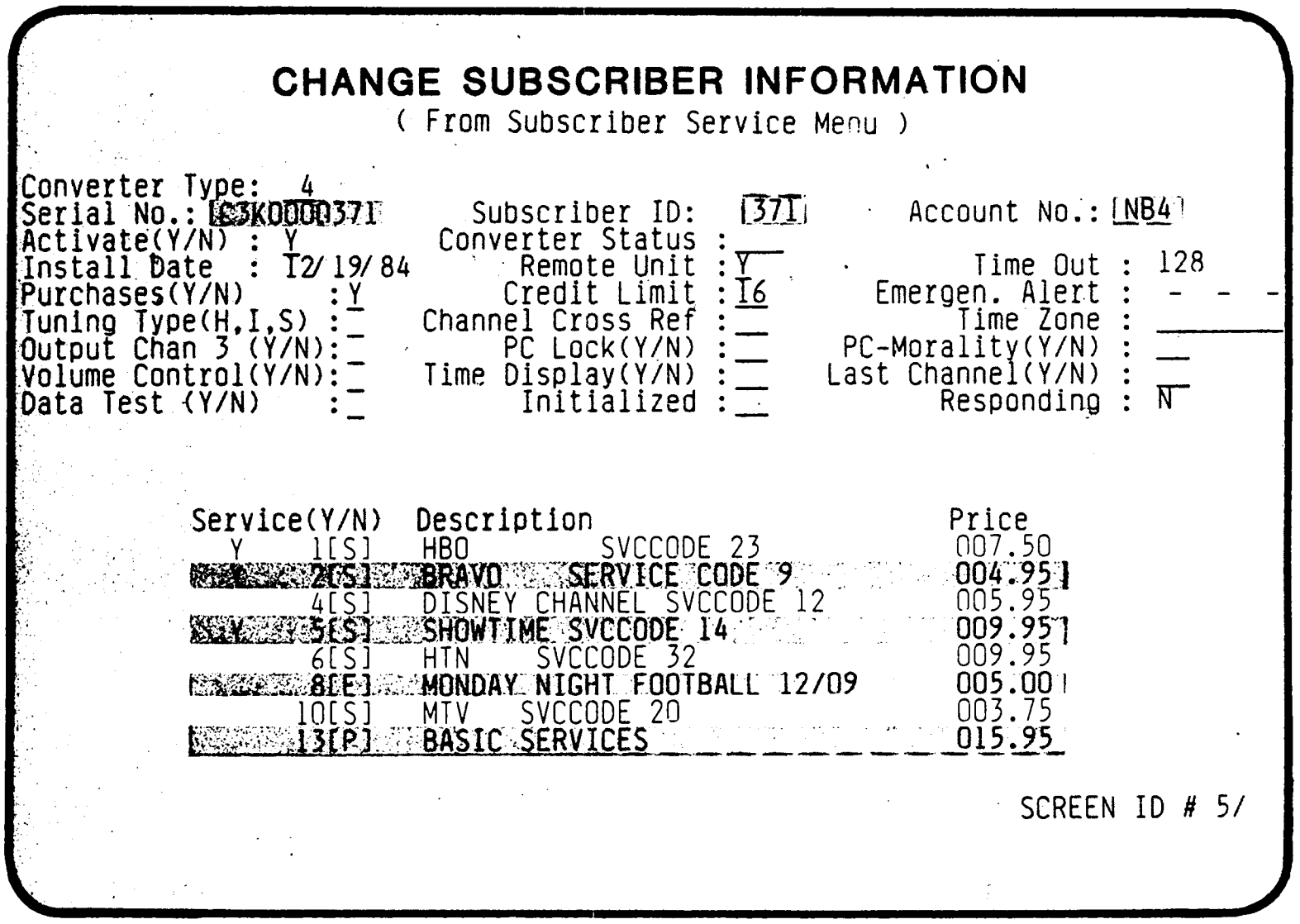
c. Enter Y ⟨RETURN⟩ if the converter is to be activated. Enter N ⟨RETURN⟩ if you do not wish to activate the converter. The cursor will then move to the Installation Date field. The current date is automatically filled in.

d. Press ⟨BOTTOM⟩ key. The cursor will then move to the page section. Some of the sections will already be filled in; this is because some of the services are standard, defined through the default converter type.

e. Enter "Y" for the services you wish to authorize. The cursor automatically goes to the next service. Press ⟨RETURN⟩ if you do not wish to authorize a service.

f. Press ⟨EXECUTE⟩ when the program is completed. Message 423, "Working" will flash.

g. To exit from this screen, press ⟨PREVIOUS SCREEN⟩.



CHANGE SUBSCRIBER INFORMATION

(From Subscriber Service Menu)

Converter Type: 4
Serial No.: [C3K0000371] Subscriber ID: [371] Account No.: [NB4]
Activate(Y/N) : Y Converter Status :
Install Date : 12/19/84 Remote Unit : Y Time Out : 128
Purchases(Y/N) : Y Credit Limit : 16 Emergen. Alert : - - -
Tuning Type(H,I,S) : Channel Cross Ref : Time Zone :
Output Chan 3 (Y/N): PC Lock(Y/N) : PC-Morality(Y/N) :
Volume Control(Y/N): Time Display(Y/N) : Last Channel(Y/N) :
Data Test (Y/N) : Initialized : Responding : N

Service(Y/N)		Description	Price
Y	1[S]	HBO SVCCODE 23	007.50
	2[S]	BRAVO SERVICE CODE 9	004.95
	4[S]	DISNEY CHANNEL SVCCODE 12	005.95
	5[S]	SHOWTIME SVCCODE 14	009.95
	6[S]	HTN SVCCODE 32	009.95
	8[E]	MONDAY NIGHT FOOTBALL 12/09	005.00
	10[S]	MTV SVCCODE 20	003.75
	13[P]	BASIC SERVICES	015.95

SCREEN ID # 5/

3.5.1 Change Subscriber Information

This function enables the user to change subscriber information.

3.5.2 Procedure

a. From any menu enter 5 ⟨GO TO SCREEN⟩. The screen will fill in with information pertinent to the converter.

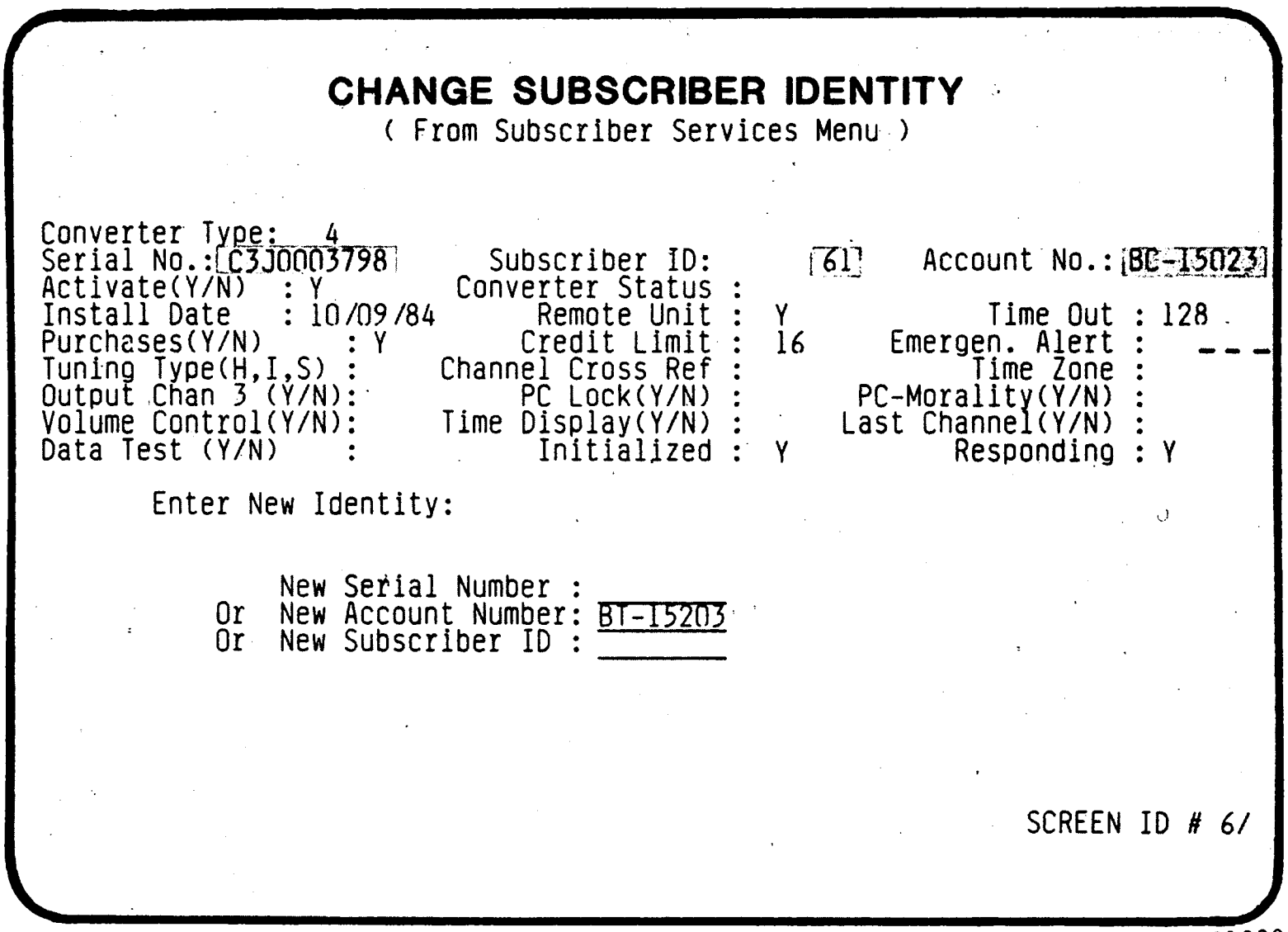
b. Use the ⟨NEXT FIELD⟩ key to get to the display fields you need to change.

c. Use the ⟨BOTTOM⟩ key to move into the paging section. The cursor will blink at the first service field in this section.

d. Press the ⟨NEXT FIELD⟩ key to get to the services you wish to change. Enter Y to add a service, N to delete a service.

e. Press ⟨EXECUTE⟩ to implement changes. The system will send a message "Working".

f. To exit this screen press ⟨PREVIOUS SCREEN⟩ key.



3.6.1 CHANGE SUBSCRIBER IDENTITY

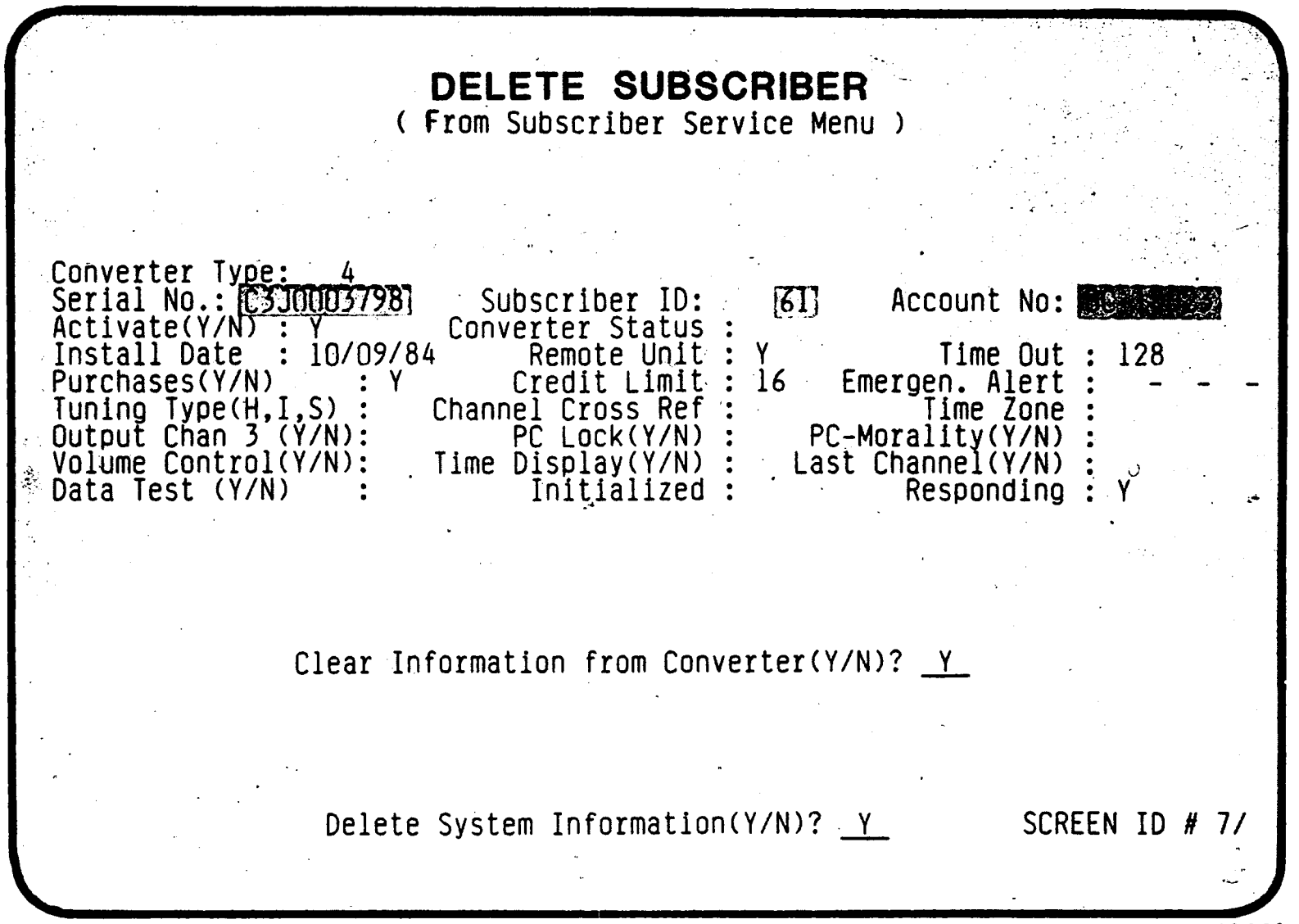
This screen enables the user to change the identity of a subscriber.

3.6.2 Procedure

a. From any menu screen, enter 6 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the serial number field. Enter either the converter serial number, the sub ID, or the account number ⟨RETURN⟩. The remaining portions of the screen will be filled in and the cursor will blink at the New Serial Number field.

b. Enter either the subscriber's serial number, account number, or new subscriber ID ⟨RETURN⟩. The system will then make the change and send a message.

c. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.



JP01031

3.7.1 Screen #7 — Delete Subscriber

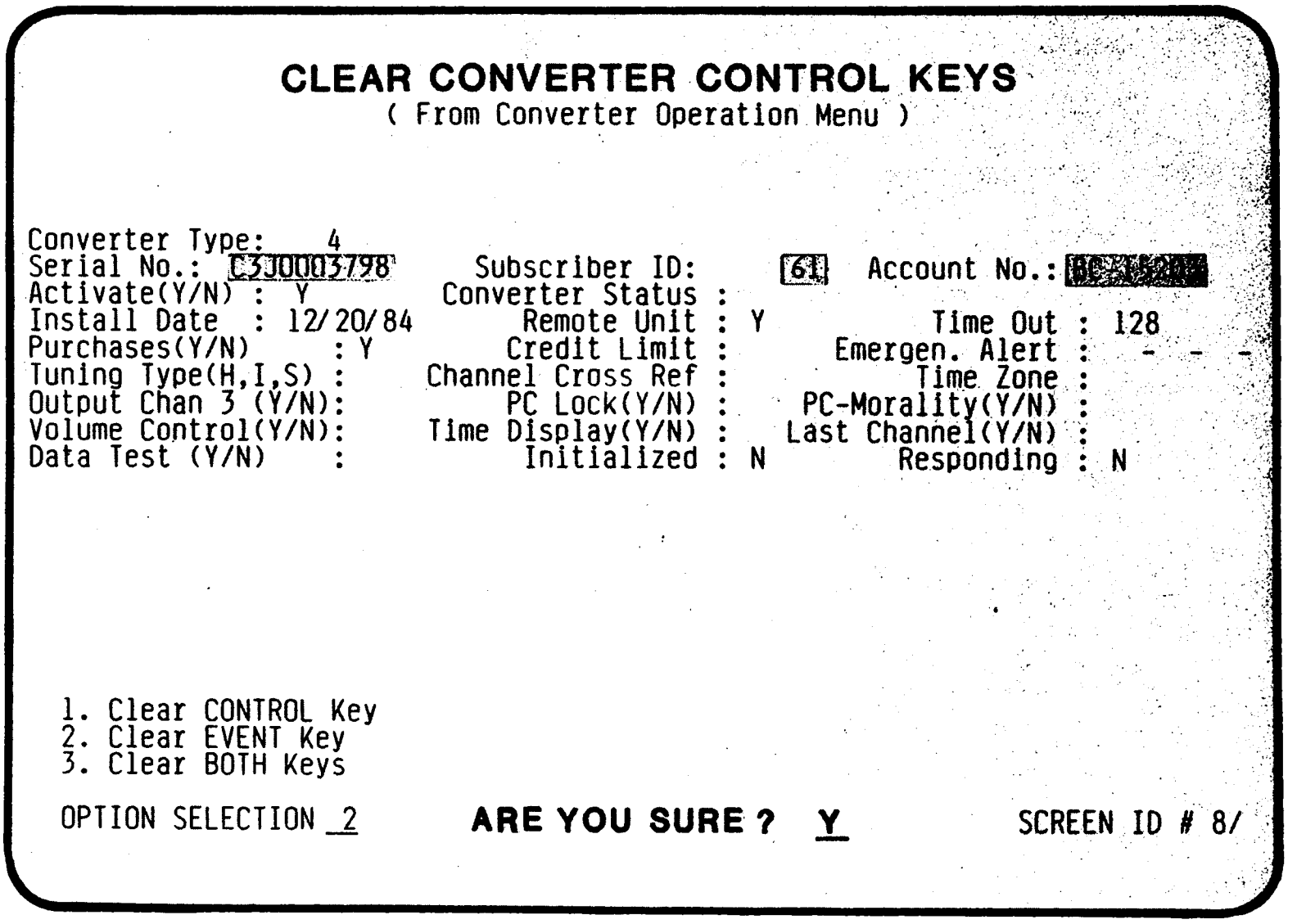
3.7.2 Procedure

a. From any menu screen press 7 ⟨GO TO SCREEN⟩. When this screen comes up, the cursor will be blinking at the serial number.

b. Enter the serial number of the converter ⟨RETURN⟩. The screen will now fill itself in with the rest of the information pertinent to that subscriber. The cursor will now be blinking at the "Are you sure" field.

c. If you are not sure that this is the correct entry to be deleted, press N ⟨RETURN⟩. The screen will then clear itself and you must reenter the information. If you are sure that this is the entry to be deleted, press Y ⟨CR⟩. The system will clear the subscriber and then flash a message "Subscriber Deleted."

d. To cancel out of this screen, press ⟨PREVIOUS SCREEN⟩ key.



3.8.1 Clear Converter Control Keys

This function clears the subscriber's converter password(s). As a feature of the AH-4, customers choose two passwords to activate the converter. One is for purchase of service, the other one for the morality code. A customer who forgets a password will call the cable operator who will clear the password from the converter. The subscriber can then enter a new password when convenient.

3.8.2 Procedure

a. From any menu screen enter 8 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at serial number.

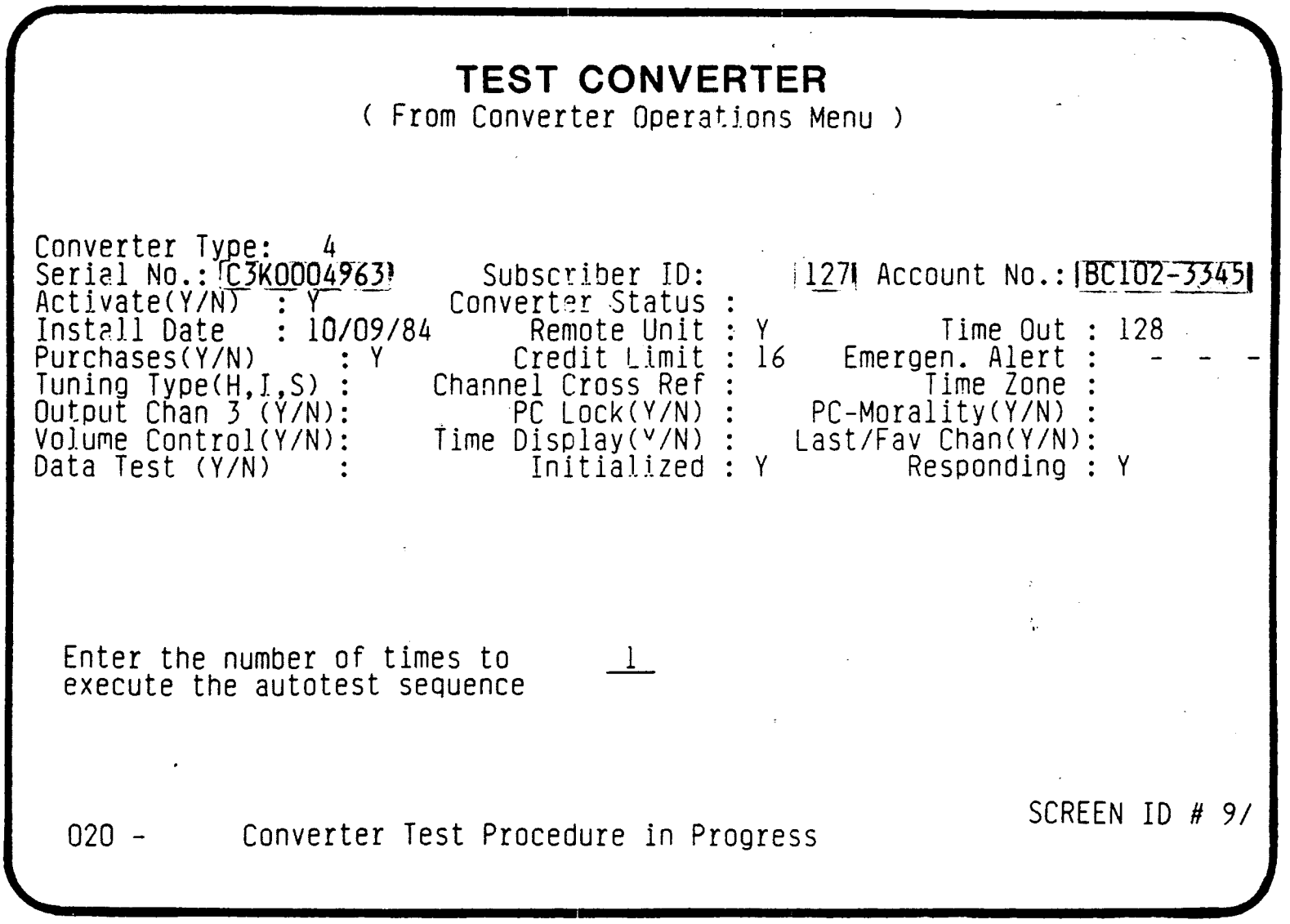
b. Enter the serial number ⟨RETURN⟩. The screen will automatically fill in the rest of the information.

c. Select the option you wish. Note the corresponding number (1 through 37).

d. Enter the selection number ⟨RETURN⟩. The cursor will then go to the "Are you sure?" field.

e. If you are not sure, then press "Y". A message "Event cleared" will flash and the screen will then clear itself. You may now clear another converter.

f. To exit this screen, press PREVIOUS ⟩ SCREEN ⟩.



3.9.1 Test Converter

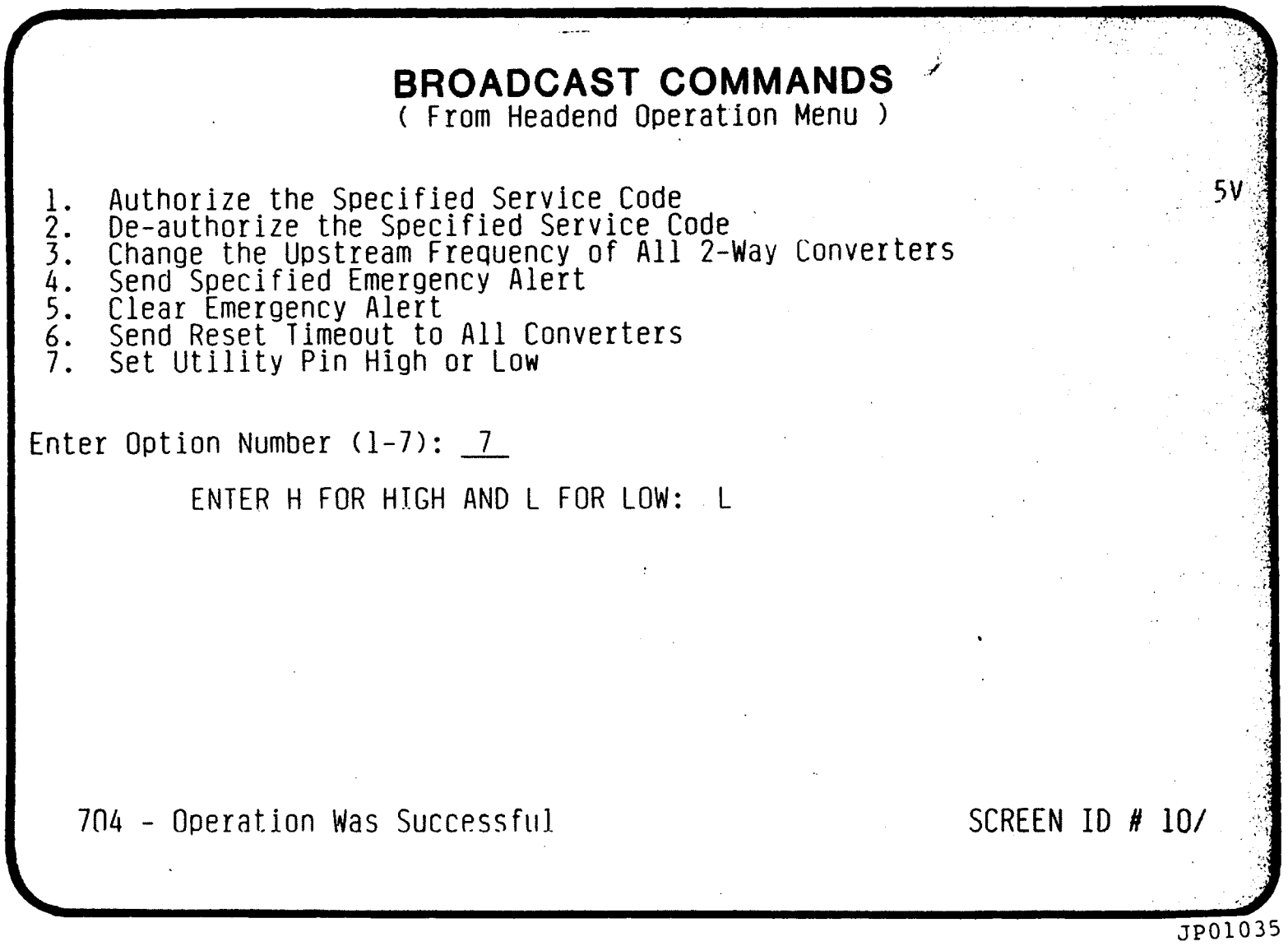
This function causes the autotest sequence to be performed by a converter a number of times determined by the operator.

3.9.2 Procedure

a. From any menu screen enter 9 ⟨GO TO SCREEN⟩. When one screen comes up, the cursor will be blinking at the "times" field.

b. Enter the number of times the test is to be performed ⟨RETURN⟩. The system will respond with message 423 — Working.

c. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.


BROADCAST COMMANDS
(From Headend Operation Menu)
5V
1. Authorize the Specified Service Code
2. De-authorize the Specified Service Code
3. Change the Upstream Frequency of All 2-Way Converters
4. Send Specified Emergency Alert
5. Clear Emergency Alert
6. Send Reset Timeout to All Converters
7. Set Utility Pin High or Low
Enter Option Number (1-7): 7
ENTER H FOR HIGH AND L FOR LOW: L
704 - Operation Was Successful
SCREEN ID # 10/

JP01035

3.10.1 Broadcast Commands

This screen enables the cable system to send commands to all converters on the cable system. Once the operator enters the number of the function to be performed, the screen prompts for any further information that is needed.

3.10.2 Procedure

a. From any menu screen enter 10 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the option field.

b. Select the option to be performed. Note the corresponding number.

c. Enter the number ⟨RETURN⟩. The system will prompt for any needed information.

d. Enter this information ⟨RETURN⟩. The system will implement the command and send the message 704 — Operation successful.

e. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.

READ SINGLE CONVERTER PURCHASES
(From Converter Operation Menu)

Serial No: [C3J0003798] Subscriber ID: [61] Account Number: [BC-15203]
Level: 15 Credit Limit: 16 Timeout: 128
Emergen. Alert: - - - Available Credit: 14 Service Code: 199

Services Purchased:

Service Num/Code	Date	Time	Status	Service Num/Code	Date	Time	Status
1 19 197	12/20/84	08:00		2 8 199	12/20/84	08:00	
3 UNUSED				4 UNUSED			
5 UNUSED				6 UNUSED			
7 UNUSED				8 UNUSED			
9 UNUSED				10 UNUSED			
11 UNUSED				12 UNUSED			
13 UNUSED				14 UNUSED			
15 UNUSED				16 UNUSED			

SCREEN ID # 12/

JP01038

3.12.1 Read Single Converter Transactions

This function allows the cable system operator to view the services a customer has purchased.

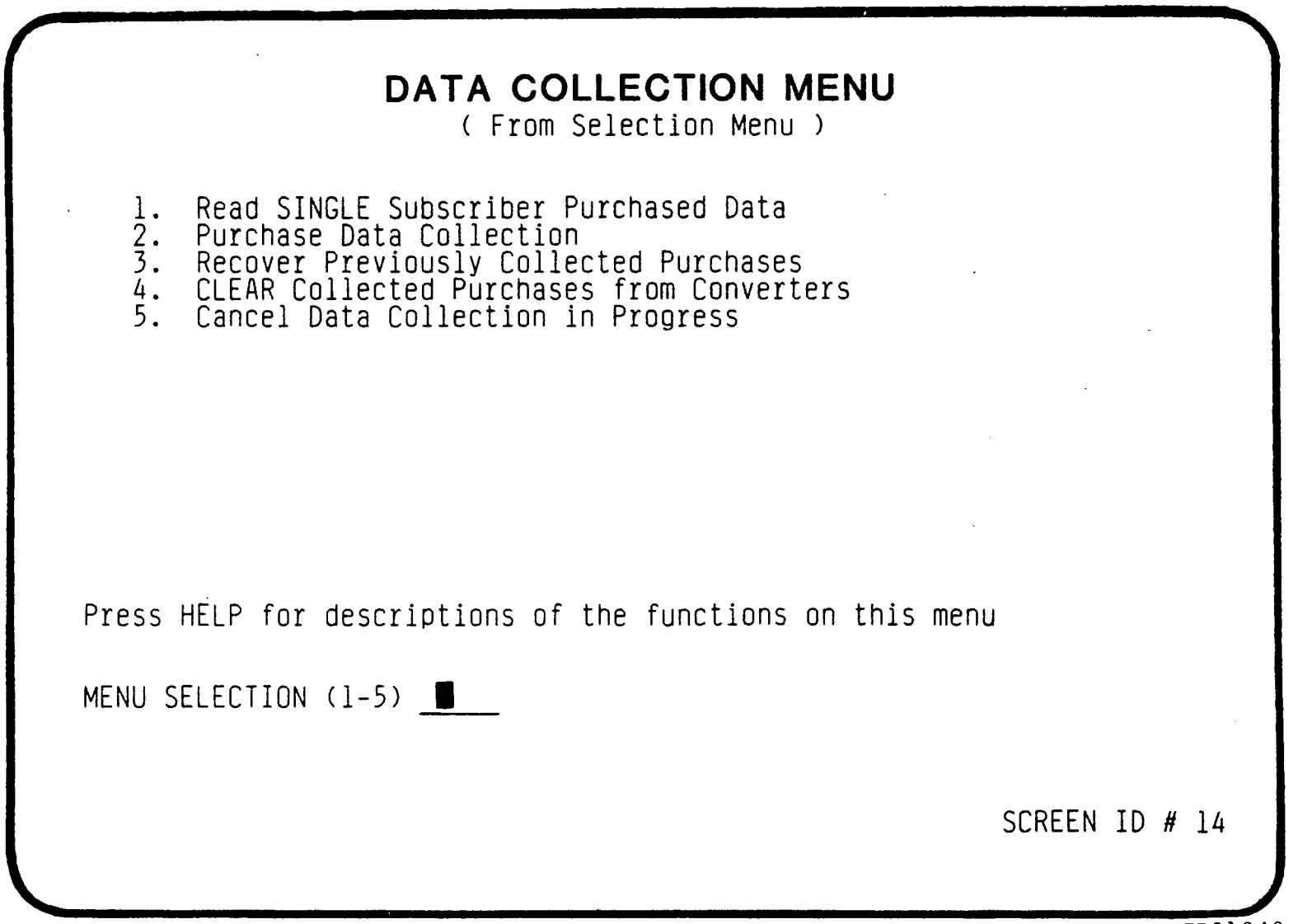
3.12.2 Procedure

a. From any menu screen enter 12 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the serial number field.

b. Enter the serial number ⟨RETURN⟩ or Sub ID ⟨RETURN⟩ of the converter whose purchases you wish to read. The screen will then display the converter's purchases.

c. To view the purchases of another converter press ⟨CLEAR⟩screen.

d. To cancel out of this screen press ⟨PREVIOUS SCREEN ⟩.


DATA COLLECTION MENU
(From Selection Menu)
1. Read SINGLE Subscriber Purchased Data
2. Purchase Data Collection
3. Recover Previously Collected Purchases
4. CLEAR Collected Purchases from Converters
5. Cancel Data Collection in Progress
Press HELP for descriptions of the functions on this menu
MENU SELECTION (1-5)
SCREEN ID # 14

JP01040

3.14.1 Data Collection Menu

This screen gives access to screens which enable the cable operator to collect data. These screens are

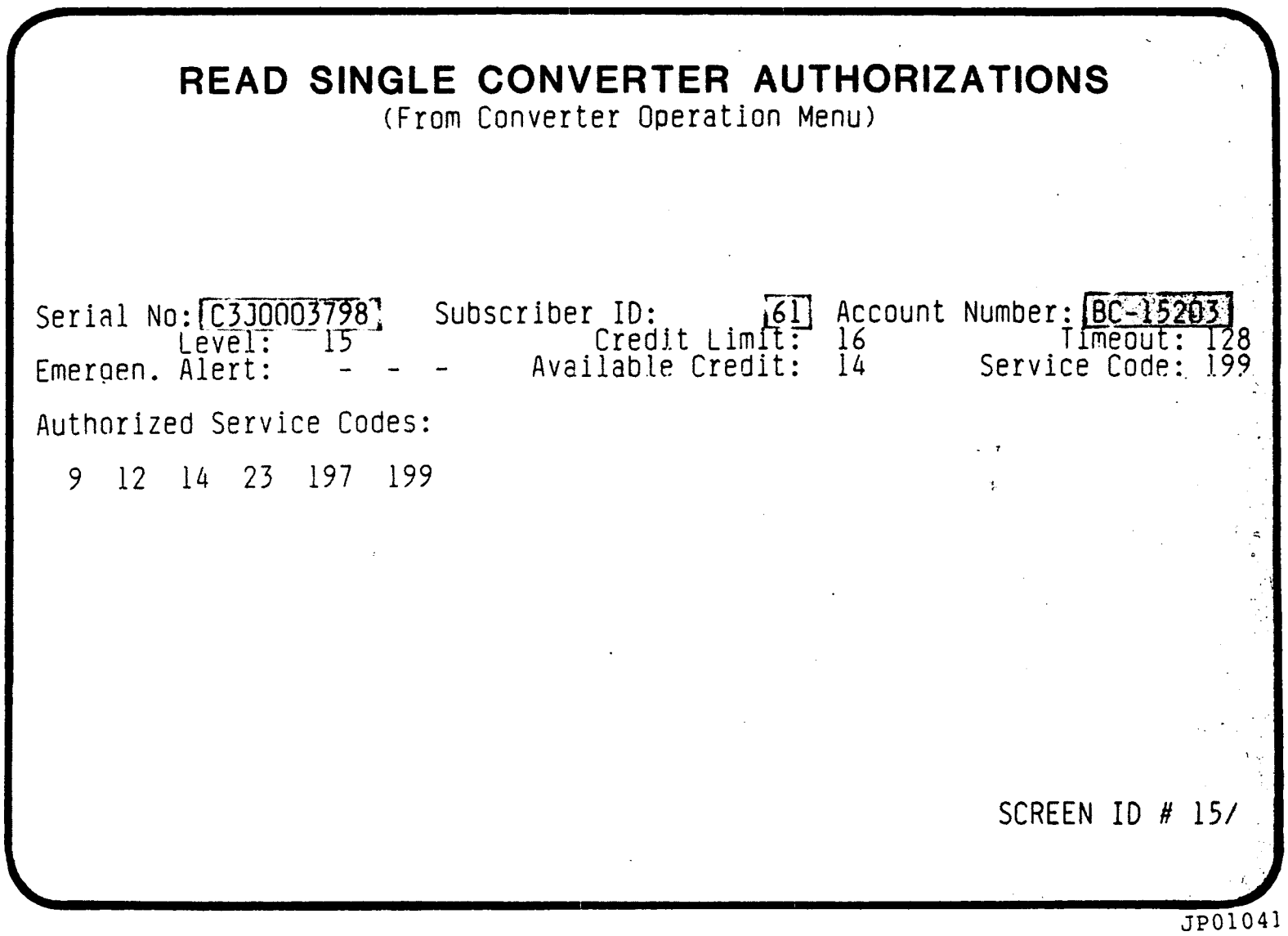
3.14.2 Procedure

a. From any menu screen enter 14 ⟨GO TO SCREEN⟩.

b. When the screen comes up, the cursor will be blinking at the Menu Selection screen.

c. Select which function you want. Note the corresponding number (1 through 5).

d. Enter the number ⟨RETURN⟩. On your terminal will be the selection you wanted.



JP01041

3.15.1 Read Single Converter Authorization

This function will enable the cable company to read the authorizations of a converter.

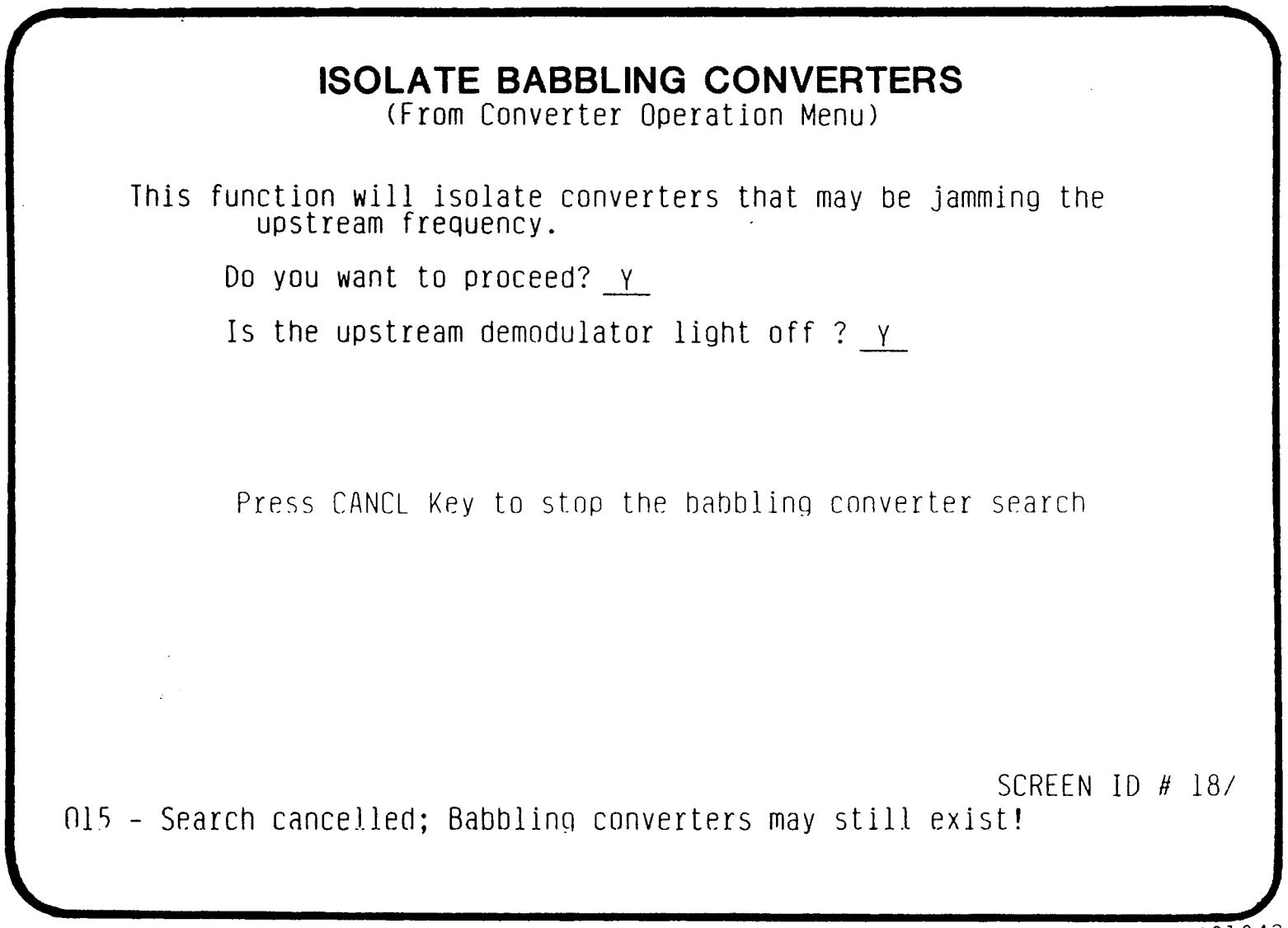
3.15.2 Procedure

a. From any menu screen enter 15 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the serial number field.

b. Enter the serial number of the converter whose authorizations you wish to view. Press the ⟨RETURN⟩ key. The authorizations will be displayed.

c. To read another converter's transactions, press the ⟨CLEAR⟩ key and repeat step b.

d. To exit this screen press ⟨PREVIOUS SCREEN⟩ key.


ISOLATE BABBLING CONVERTERS
(From Converter Operation Menu)
This function will isolate converters that may be jamming the upstream frequency.
Do you want to proceed? Y
Is the upstream demodulator light off ? Y
Press CANCL Key to stop the babbling converter search
SCREEN ID # 18/
015 - Search cancelled; Babbling converters may still exist!

3.18.1 Isolate Babbling Converters

This screen enables the user to isolate a converter that is instantly emitting noise and prohibiting other converters from sending messages upstream to the headend.

3.18.2 Procedure

a. From any menu screen enter 18 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the Yes/No field.

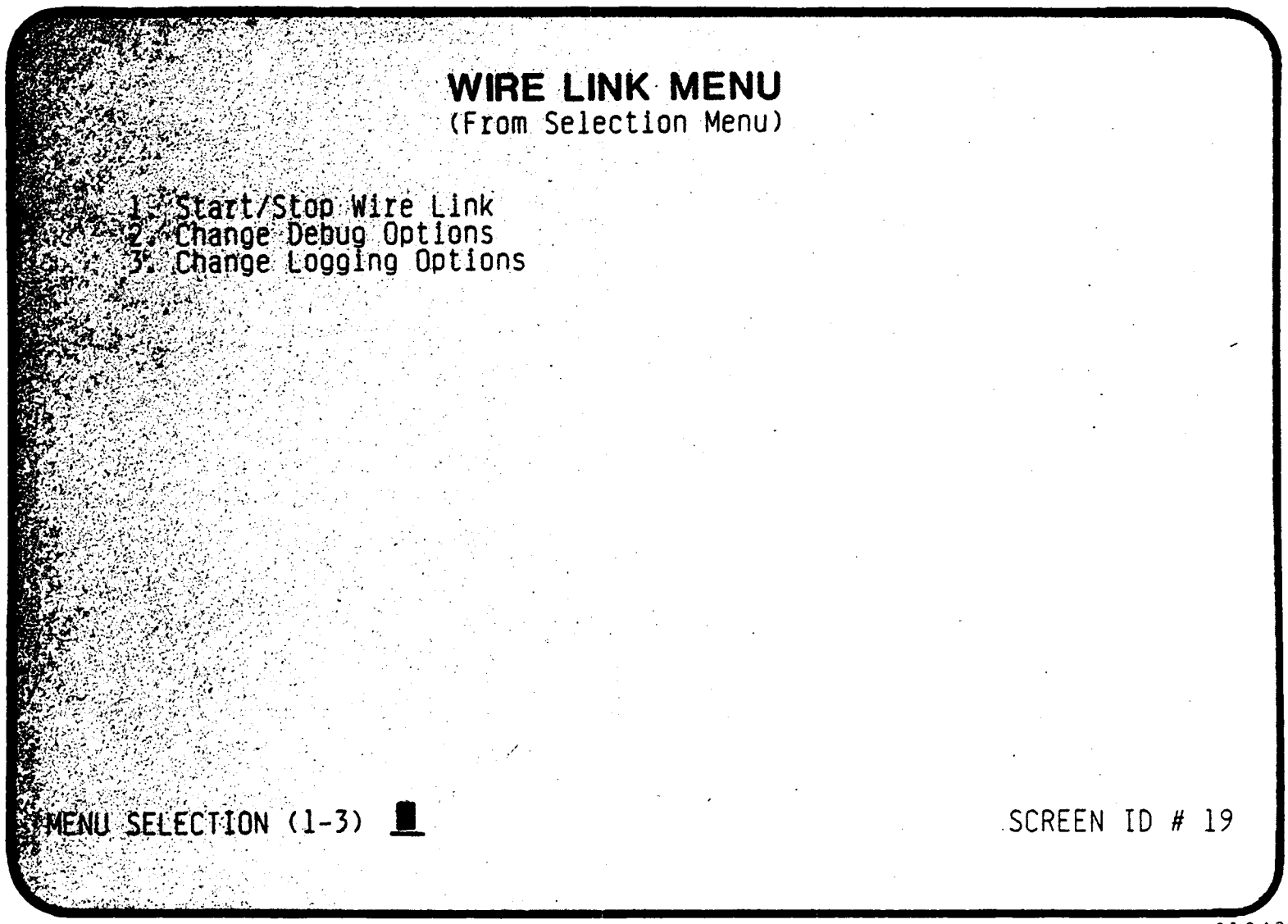
b. Enter Y if you wish to proceed, N if you do not. If N was entered, the screen will clear itself. If Y was entered, the cursor will move down to the next field.

c. If the upstream demodulator light is off, enter "Y" ⟨RETURN⟩. If the light is not off, enter "N" ⟨RETURN⟩. If you entered "N", the system will instruct the user to turn it off and will then return you to the headend operations menu. When the light is off, bring up the screen again and proceed from Section 3.18.2.

d. If "Y" was entered, the system will proceed with the search for babbling converters. The system will send a message that the search is in progress. This will be followed by a message indicating a babbling box has been found. The system searches for quite some time and then indicates search for babbling box complete. The printer then sends out a printing of this.

NOTE

When the system is searching for babbling converters, no other function can be performed by the operator.



JP01043

3.19 Wire Link Menu

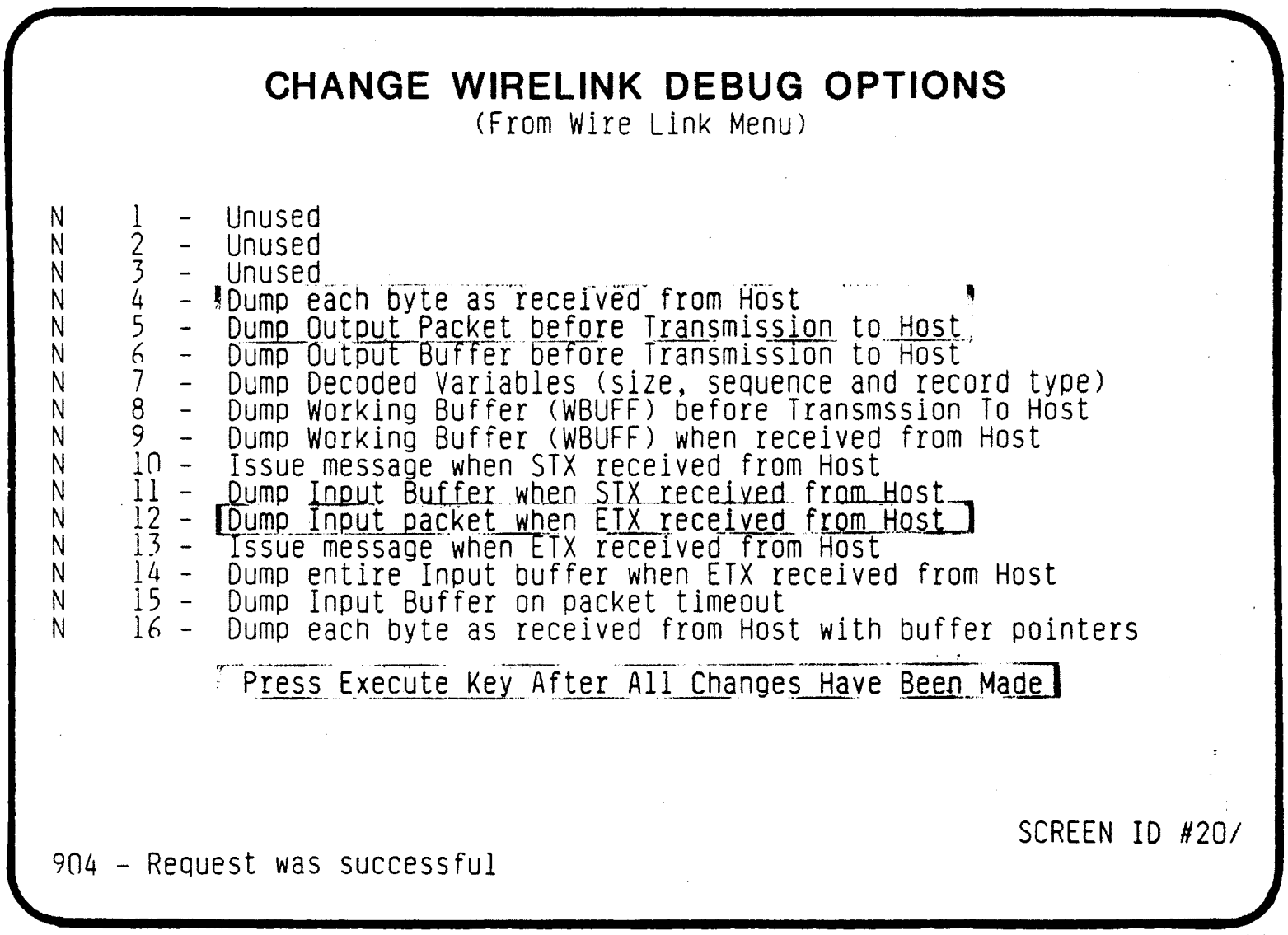
This menu contains access to the screens on the Wire Link Menu, screen 28, 20, 30, and 25.

3.19.2

a. From any menu screen enter 19 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the menu option field.

b. Select the function you want. Enter the corresponding number (1 through 4) ⟨RETURN⟩

c. The function you have selected will now be on your screen.


CHANGE WIRELINK DEBUG OPTIONS
(From Wire Link Menu)
N 1 - Unused
N 2 - Unused
N 3 - Unused
N 4 - Dump each byte as received from Host
N 5 - Dump Output Packet before Transmission to Host
N 6 - Dump Output Buffer before Transmission to Host
N 7 - Dump Decoded Variables (size, sequence and record type)
N 8 - Dump Working Buffer (WBUFF) before Transmssion To Host
N 9 - Dump Working Buffer (WBUFF) when received from Host
N 10 - Issue message when STX received from Host
N 11 - Dump Input Buffer when STX received from Host
N 12 - Dump Input packet when ETX received from Host
N 13 - Issue message when ETX received from Host
N 14 - Dump entire Input buffer when ETX received from Host
N 15 - Dump Input Buffer on packet timeout
N 16 - Dump each byte as received from Host with buffer pointers
Press Execute Key After All Changes Have Been Made
SCREEN ID #20/
904 - Request was successful

3.20.1 Wire Link Debug Option

This screen will enable the user to change one or more of the debug options listed on the screen. These options are set in the Wire Link configuration file and initialized to those values during system start up. This screen permits these values to be changed in a real time mode.

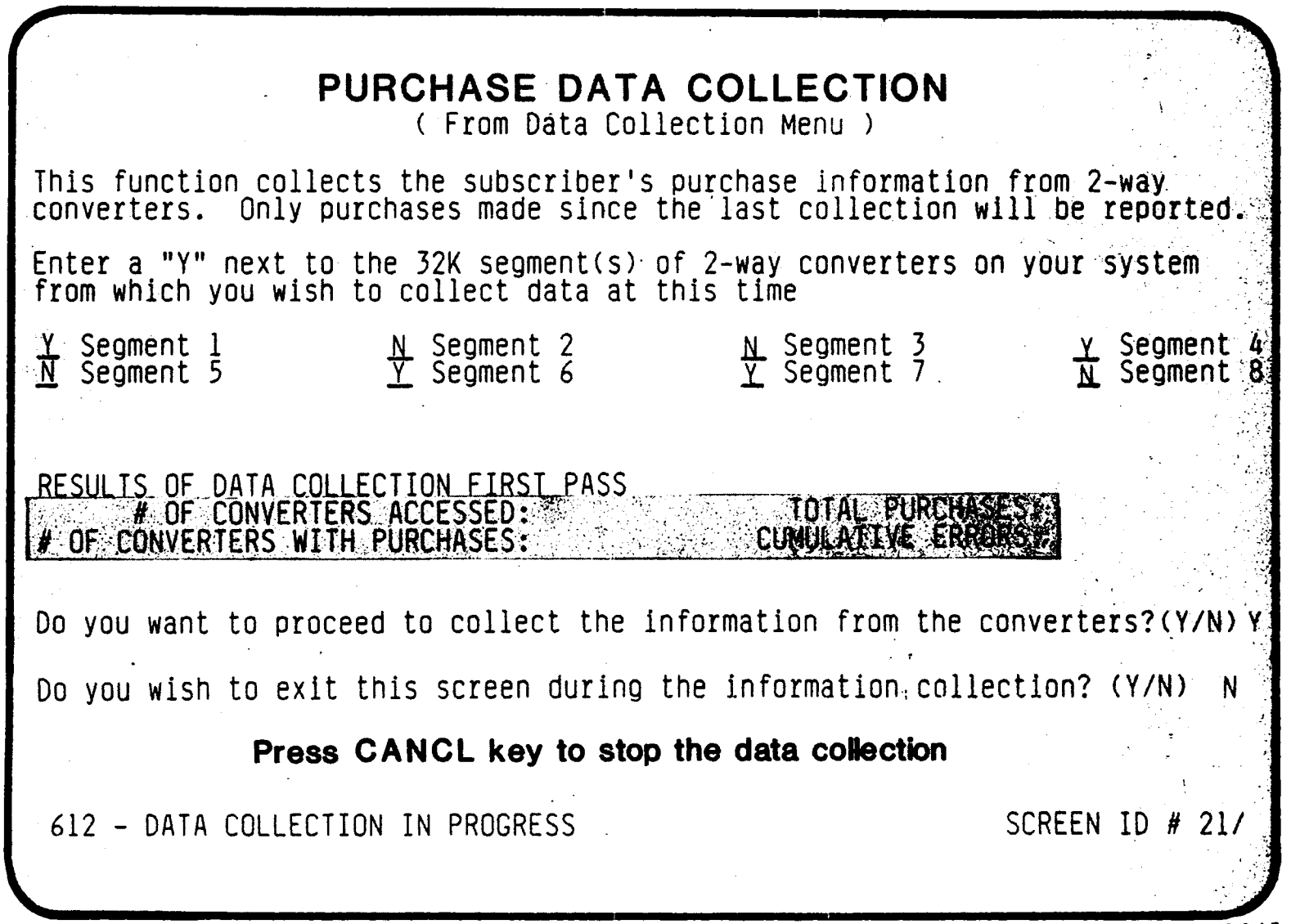
3.20.2 Procedure

a. From any menu screen enter 20 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the lower right-hand of the screen.

b. Using the ⟨NEXT FIELD⟩ key, move up and down to change the options as needed.

c. When completed, press ⟨EXECUTE⟩ key. The system will send the message 423 — Working, followed by 904 — Request was successful.

d. To exit this screen press ⟨PREVIOUS SCREEN⟩ key.


PURCHASE DATA COLLECTION
(From Data Collection Menu)
This function collects the subscriber's purchase information from 2-way converters. Only purchases made since the last collection will be reported.
Enter a "Y" next to the 32K segment(s) of 2-way converters on your system from which you wish to collect data at this time
Y Segment 1
N Segment 2
N Segment 3
Y Segment 4
N Segment 5
Y Segment 6
Y Segment 7
N Segment 8
RESULTS OF DATA COLLECTION FIRST PASS
OF CONVERTERS ACCESSED:
TOTAL PURCHASES:
OF CONVERTERS WITH PURCHASES:
CUMULATIVE ERRORS:
Do you want to proceed to collect the information from the converters?(Y/N) Y
Do you wish to exit this screen during the information collection? (Y/N) N
Press CANCL key to stop the data collection
612 - DATA COLLECTION IN PROGRESS
SCREEN ID # 21/

JP01045

3.21.1 PURCHASE DATA COLLECTION

This function enables the user to collect information about each subscriber's purchases. Only purchases made since the last collection date are reported.

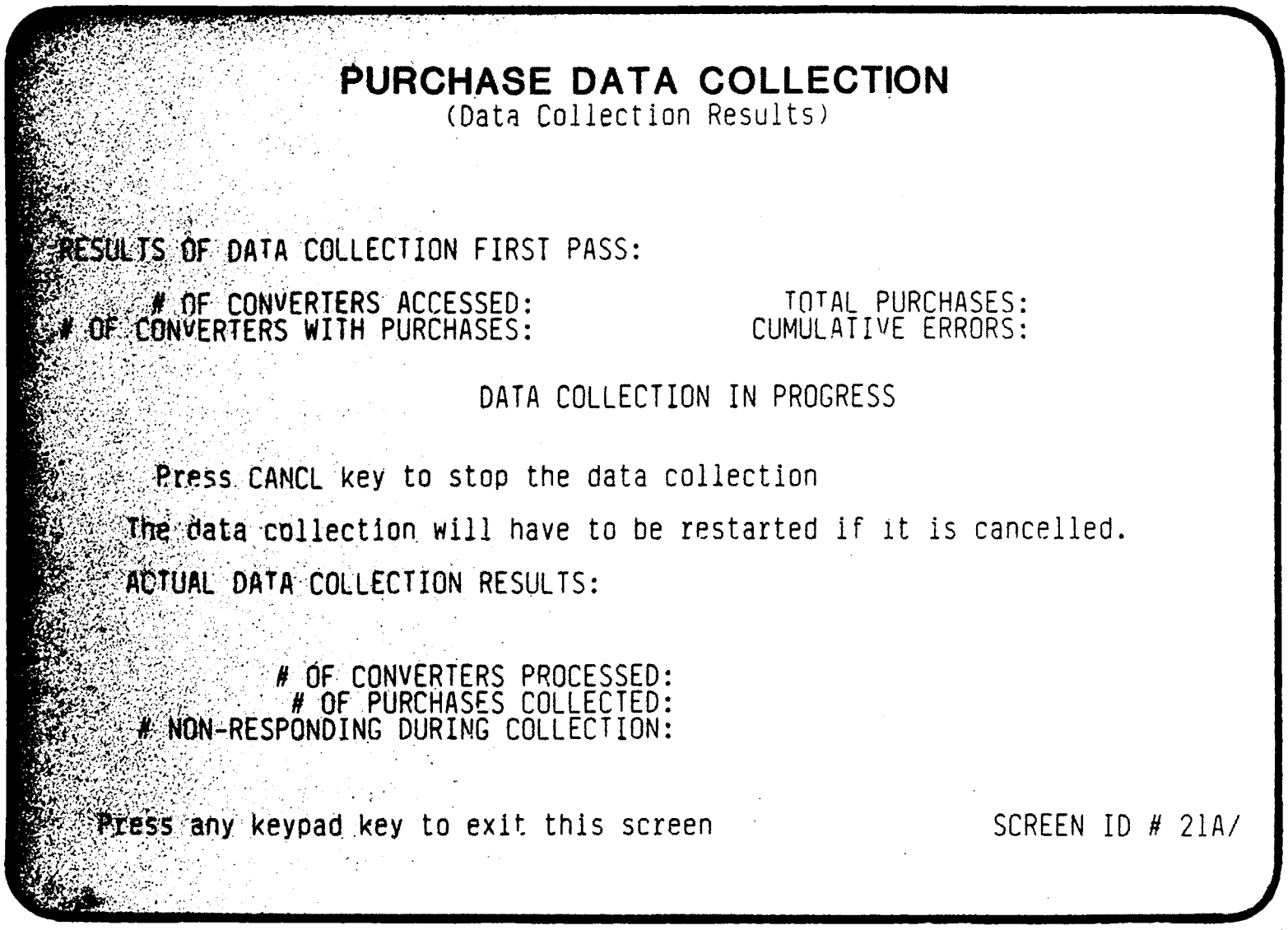
3.21.2 Procedure

a. From any menu screen, enter 21 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the Segment Field. The segments will be filled in according to the system's configuration.

b. Enter "Y" next to the two-way segments from which data is to be collected at this time.

c. Press ⟨EXECUTE⟩ to initiate Data Collection. The system will collect data and display it in the First Pass field. The cursor will move to the Y/N field.

d. 1. If you wish to collect information from the converters, press "Y" ⟨RETURN⟩. The cursor will move to the last field.
   2. If you wish to stay in the screen during the data collection, press "N" ⟨RETURN⟩. The system will then move to screen 21A.
   3. If you do not wish to stay in this screen during the data collection, press "E" ⟨RETURN⟩. The system will then return to the Data Collection Menu.


PURCHASE DATA COLLECTION
(Data Collection Results)
RESULTS OF DATA COLLECTION FIRST PASS:
OF CONVERTERS ACCESSED:
TOTAL PURCHASES:
OF CONVERTERS WITH PURCHASES:
CUMULATIVE ERRORS:
DATA COLLECTION IN PROGRESS
Press CANCL key to stop the data collection
The data collection will have to be restarted if it is cancelled.
ACTUAL DATA COLLECTION RESULTS:
OF CONVERTERS PROCESSED:
OF PURCHASES COLLECTED:
NON-RESPONDING DURING COLLECTION:
Press any keypad key to exit this screen
SCREEN ID # 21A/

3.21A PURCHASE DATA COLLECTION (Data Collection Results)

This screen displays the results of the Data Collection initiated in Screen 21

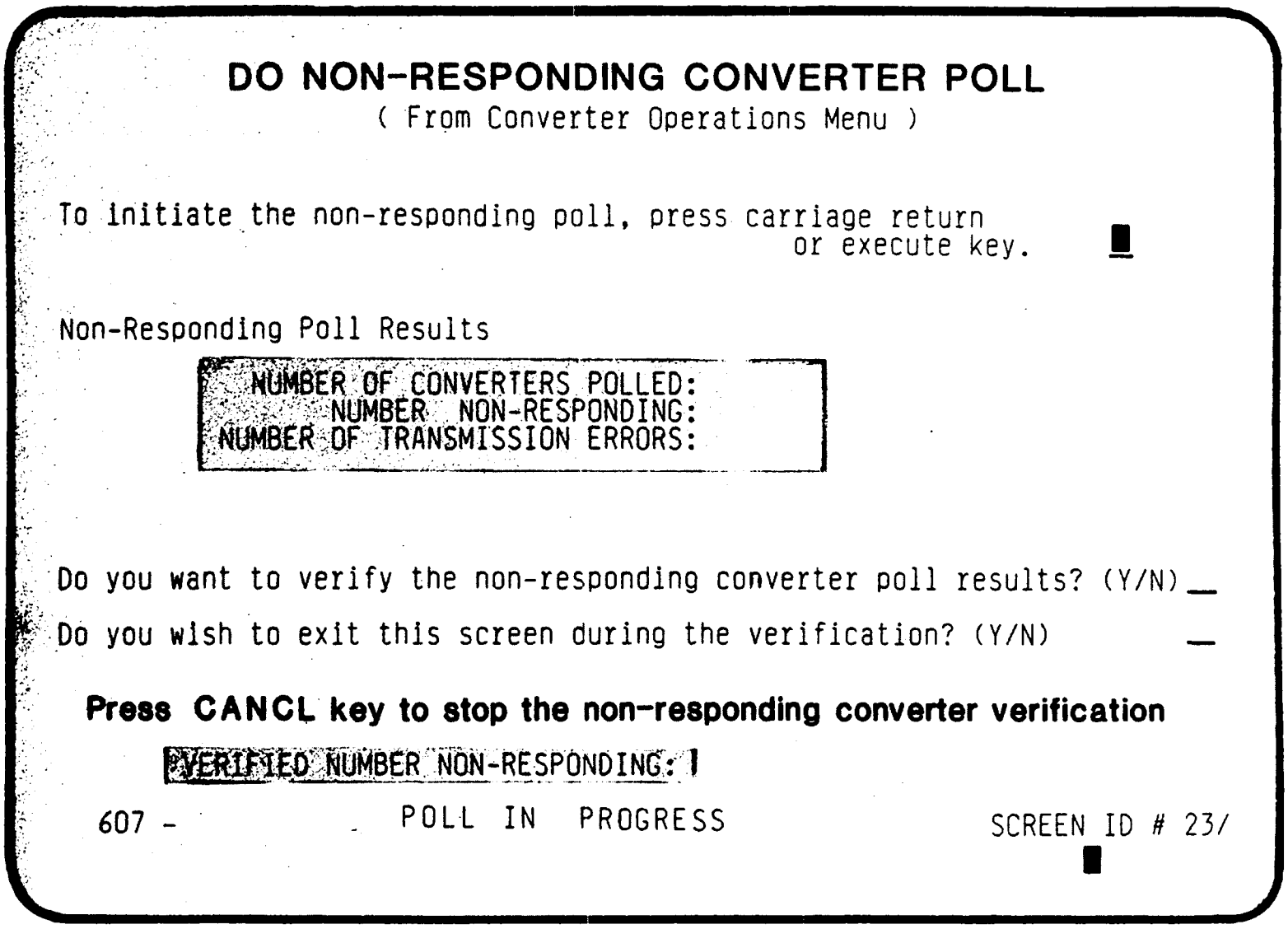
Procedure

a. This screen is entered only through screen 21. When this screen comes up, the results of the data collection's first pass are displayed and the cursor is blinking at the "Data Collection In Progress" field. When the collection is completed, the information will be displayed.

b. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.

NOTE

To cancel this collection, press ⟨CANCEL⟩ key. The collection will stop. It will have to be restarted through screen 21 if it is to be started again.


DO NON-RESPONDING CONVERTER POLL
(From Converter Operations Menu)
To initiate the non-responding poll, press carriage return
or execute key.
Non-Responding Poll Results
NUMBER OF CONVERTERS POLLED:
NUMBER NON-RESPONDING:
NUMBER OF TRANSMISSION ERRORS:
Do you want to verify the non-responding converter poll results? (Y/N)
Do you wish to exit this screen during the verification? (Y/N)
Press CANCL key to stop the non-responding converter verification
VERIFIED NUMBER NON-RESPONDING: 1
607 - POLL IN PROGRESS
SCREEN ID # 23/

JP01047

3.23.1 Do Non-Responding Converter Poll

This function reports all two-way converters that do not respond to a poll. The AH-4 searches the system and collects the number of converters polled, the number of non-responding converters, and the number of transmission errors. The system displays this information on the screen.

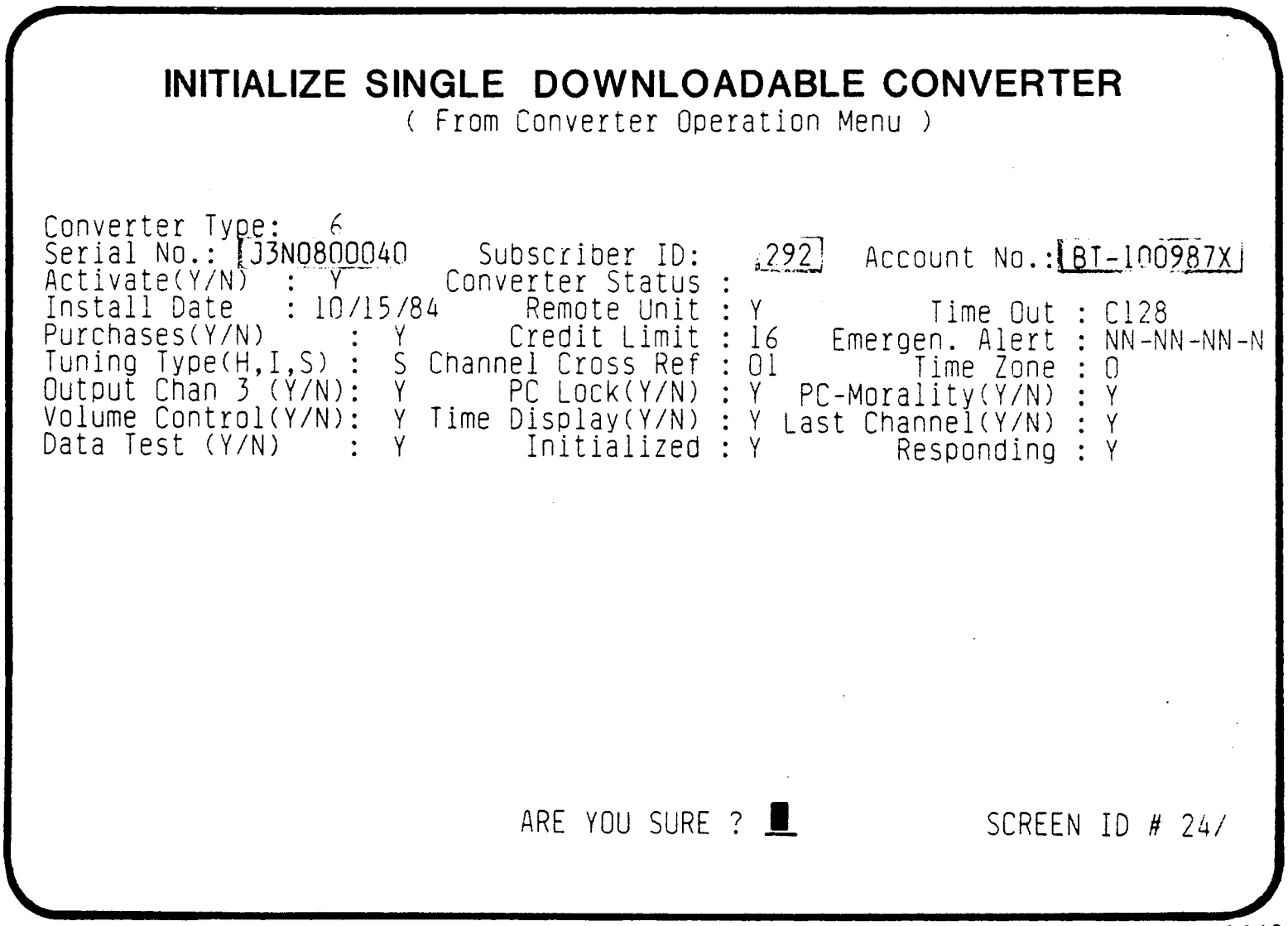
3.23.2 Procedure

a. From any menu screen press 23 ⟨GO TO SCREEN⟩. When the screen comes up the cursor will be blinking at the upper right-hand portion of the screen.

b. Press ⟨EXECUTE⟩to initiate the non-responding poll. The system will send you a message ⟨Poll in Progress⟩. When the poll is completed, the system will display the results.

c. Look at the three verification options. Select which option you wish and enter the corresponding letter (V, W, or C).

d. To exit from this screen press ⟨PREVIOUS SCREEN⟩ key.



JP01048

3.24.1 Initialize Single Downloadable Converter

This screen will enable the user to initialize a single downloadable converter.

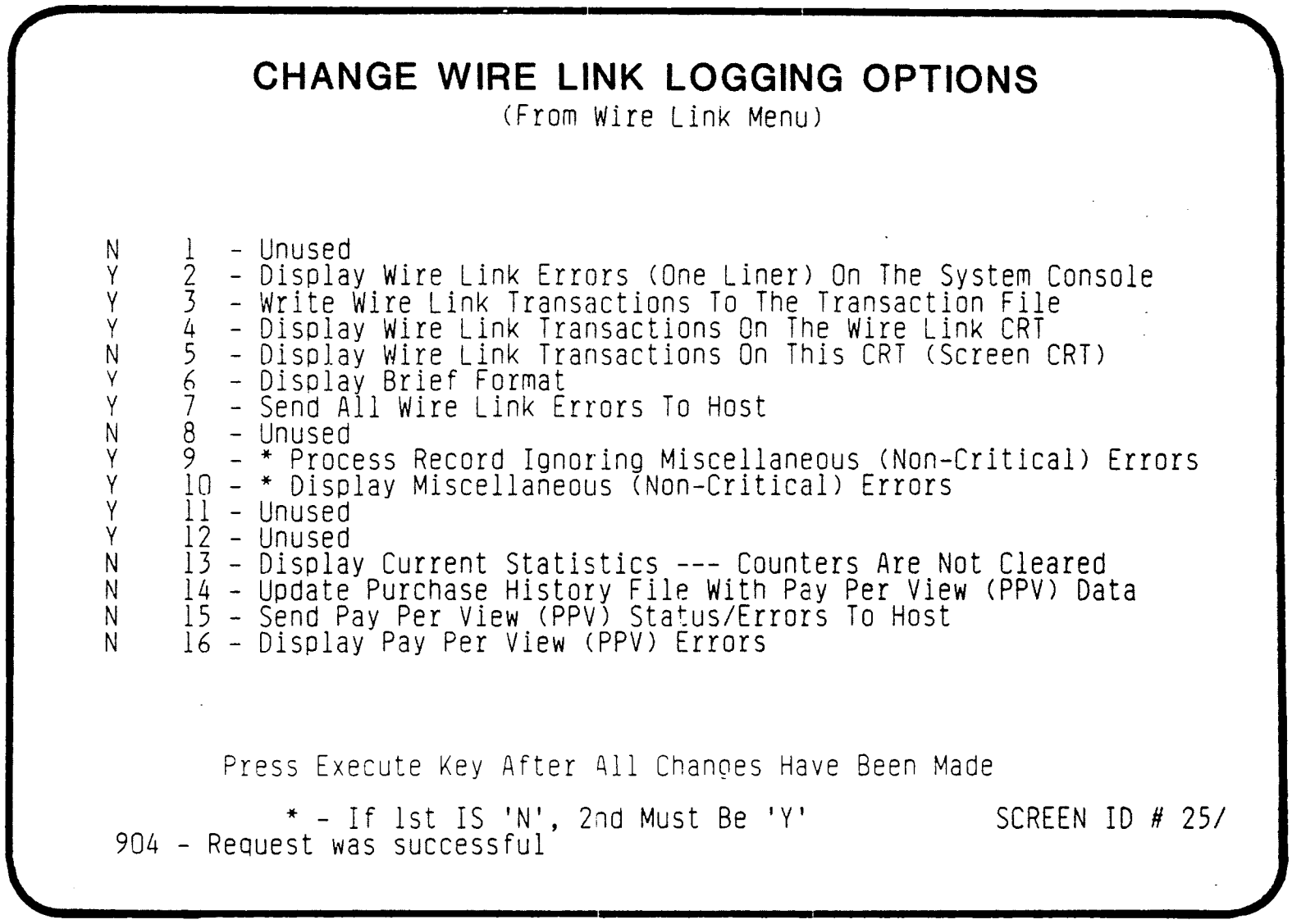
3.24.2 Procedure

a. From any menu screen enter 24 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the Serial Number field.

b. Enter the serial number of the converter to be initialized. The remaining portion of the screen will fill in. The cursor will move to the "Are you sure?" field.

c. Enter "Y" if you are sure, "N" if you are not sure. If you entered Y, the converter will be initialized and the system will send message " — converter initialized". If you entered N, the screen will clear itself and you may enter a new number.

d. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.


CHANGE WIRE LINK LOGGING OPTIONS
(From Wire Link Menu)
N 1 - Unused
Y 2 - Display Wire Link Errors (One Liner) On The System Console
Y 3 - Write Wire Link Transactions To The Transaction File
Y 4 - Display Wire Link Transactions On The Wire Link CRT
N 5 - Display Wire Link Transactions On This CRT (Screen CRT)
Y 6 - Display Brief Format
Y 7 - Send All Wire Link Errors To Host
N 8 - Unused
Y 9 - * Process Record Ignoring Miscellaneous (Non-Critical) Errors
Y 10 - * Display Miscellaneous (Non-Critical) Errors
Y 11 - Unused
Y 12 - Unused
N 13 - Display Current Statistics --- Counters Are Not Cleared
N 14 - Update Purchase History File With Pay Per View (PPV) Data
N 15 - Send Pay Per View (PPV) Status/Errors To Host
N 16 - Display Pay Per View (PPV) Errors
Press Execute Key After All Changes Have Been Made
* - If 1st IS 'N', 2nd Must Be 'Y'
SCREEN ID # 25/
904 - Request was successful

3.25.1 CHANGE WIRE LINK LOGGING OPTIONS

This function enables the user to change the wire link's logging options.

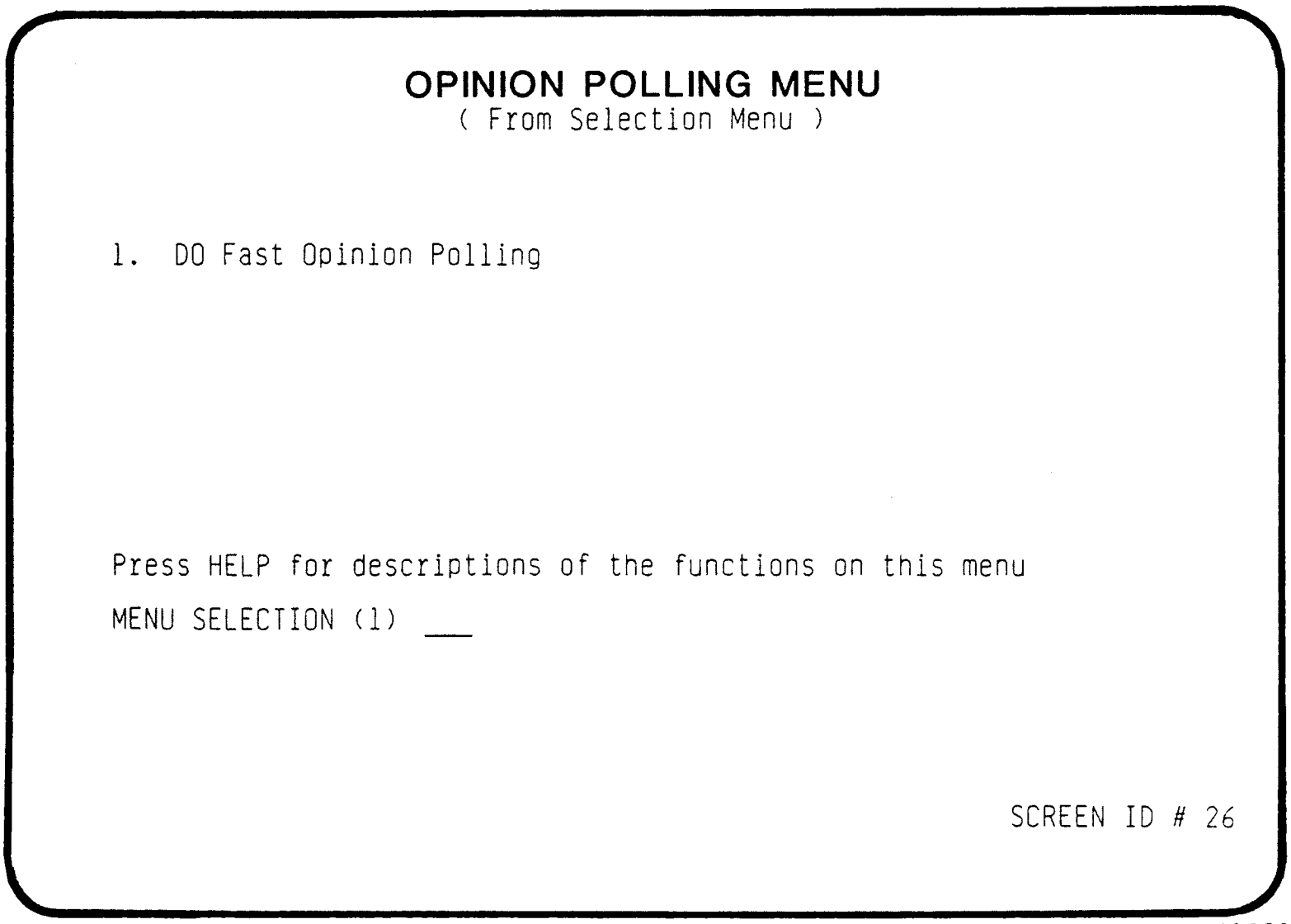
Procedure

a. From any menu screen, enter 25 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the "Unused" field.

b. Enter Y next to each option to be implemented. Enter N next to each option to be ignored. Use the ⟨PREVIOUS FIELD⟩ and ⟨NEXT FIELD⟩ keys to move back and forth in this section.

c. Check that all entries are correct and then press the ⟨EXECUTE⟩ key. The system will send message 423 — Working, followed by

d. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.


OPINION POLLING MENU
(From Selection Menu)
1. DO Fast Opinion Polling
Press HELP for descriptions of the functions on this menu
MENU SELECTION (1) ___
SCREEN ID # 26

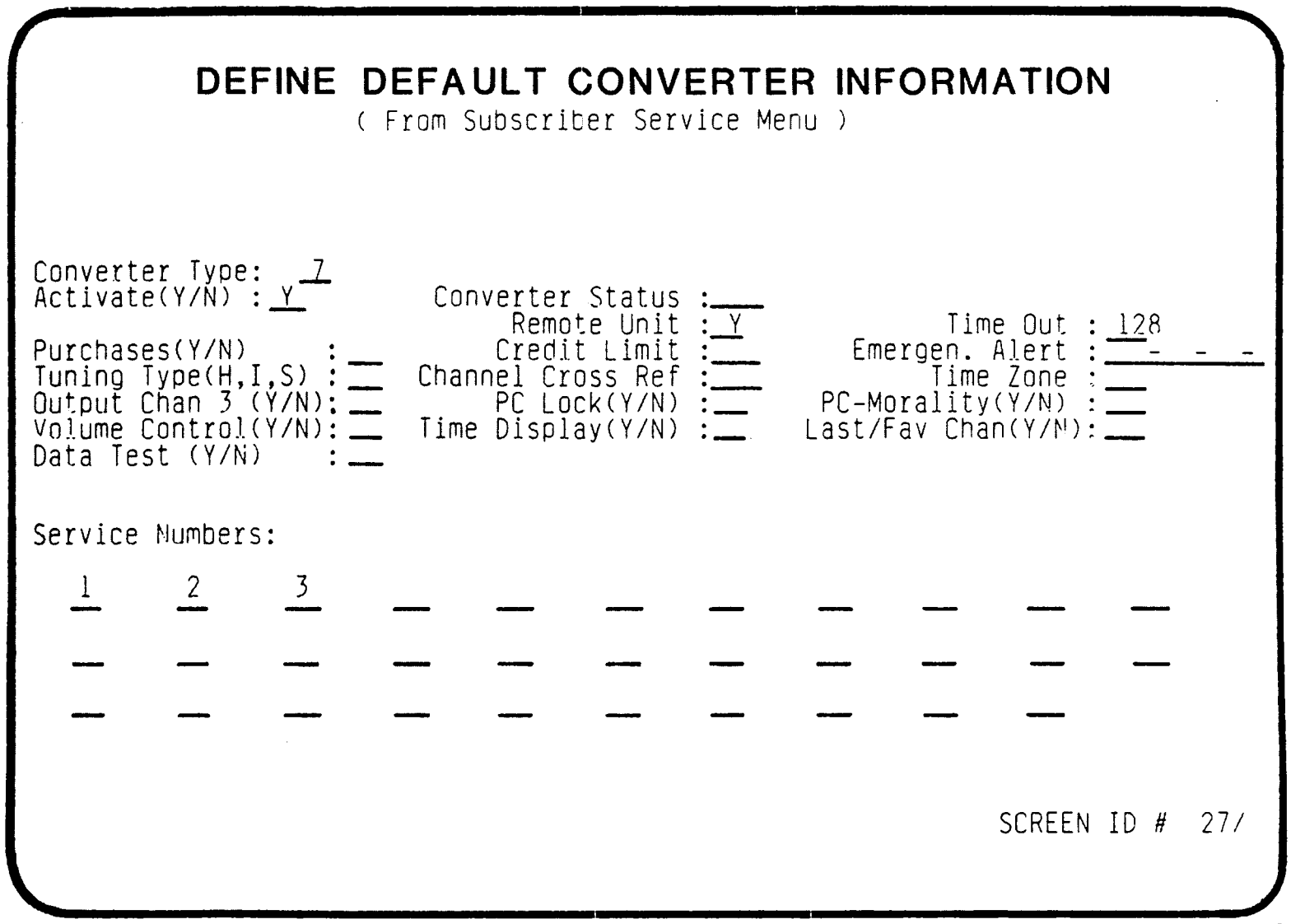
3.26.1 Opinion Polling Menu

This function gives the user access to the Fast Opinion Polling menu .

3.26.2

a. From any menu screen enter 26 ⟨GO TO SCREEN⟩. When the screen comes up, the cur sor will be blinking at the menu selection field.

b. Enter 1 ⟨RETURN⟩The Fast Opinion Polling function will appear on the screen.



3.27.1 Define Default Converter Information

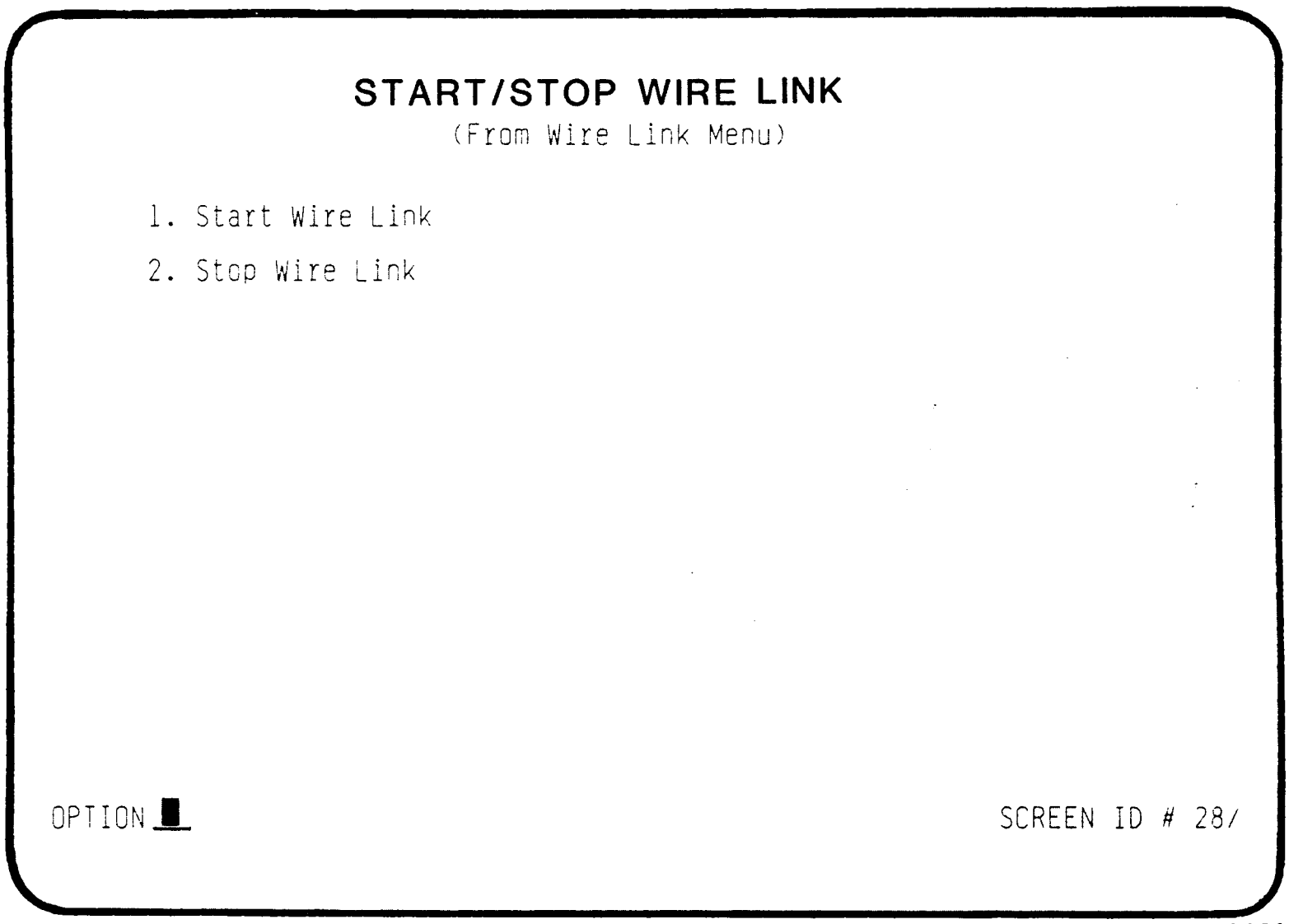
This screen enables cable management to define the parameters of each type of converter. Information entered here, when, implemented, will affect each converter of the type specified.

3.27.2 Procedure

a. From any menu screen enter 27 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the converter type field.

b. Enter the information needed. Use the ⟨HELP⟩ key if stuck on what to enter. Use the ⟨NEXT KEY⟩ ⟨PREVIOUS KEY⟩ as required.

c. When finished, press ⟨EXECUTE⟩. The system will then clear itself.



3.28.1 Start/Stop Wire Link

This function enables the user to start or stop the wire link.

3.28.2 Procedure

a. From any menu screen enter 28 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the option field.

b. Select the option wanted. Note the corresponding number.

c. Enter the number ⟨RETURN⟩. The system will send message _____.

d. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.

SYSTEM STATUS REPORTS

(From System Information Report Menu)

1. Print System Error Information
2. Print System Change Information

OPTION SELECTION

SCREEN ID # 34

JP01055

ENTER CHANNEL CROSS REFERENCE INFORMATION

(From Headend Operations Menu)

	Channel Tuned	Modulated Channel
Channel Cross Reference Table: 10		

Define a new table (Y/N) ? N

Are You Sure (Y/N)? ▮

SCREEN ID # 38/

436 - Channel Cross Reference List Not Found

JP01056

ENTER CHANNEL CROSS REFERENCE INFORMATION

(From Headend Operations Menu)

	Channel Tuned	Modulated Channel
Channel Cross Reference Table: 10		

Define a new table (Y/N) ? ■

Are You Sure (Y/N)?

SCREEN ID # 38/

436 - Channel Cross Reference Not Found

JP01057

ENTER CHANNEL CROSS REFERENCE INFORMATION

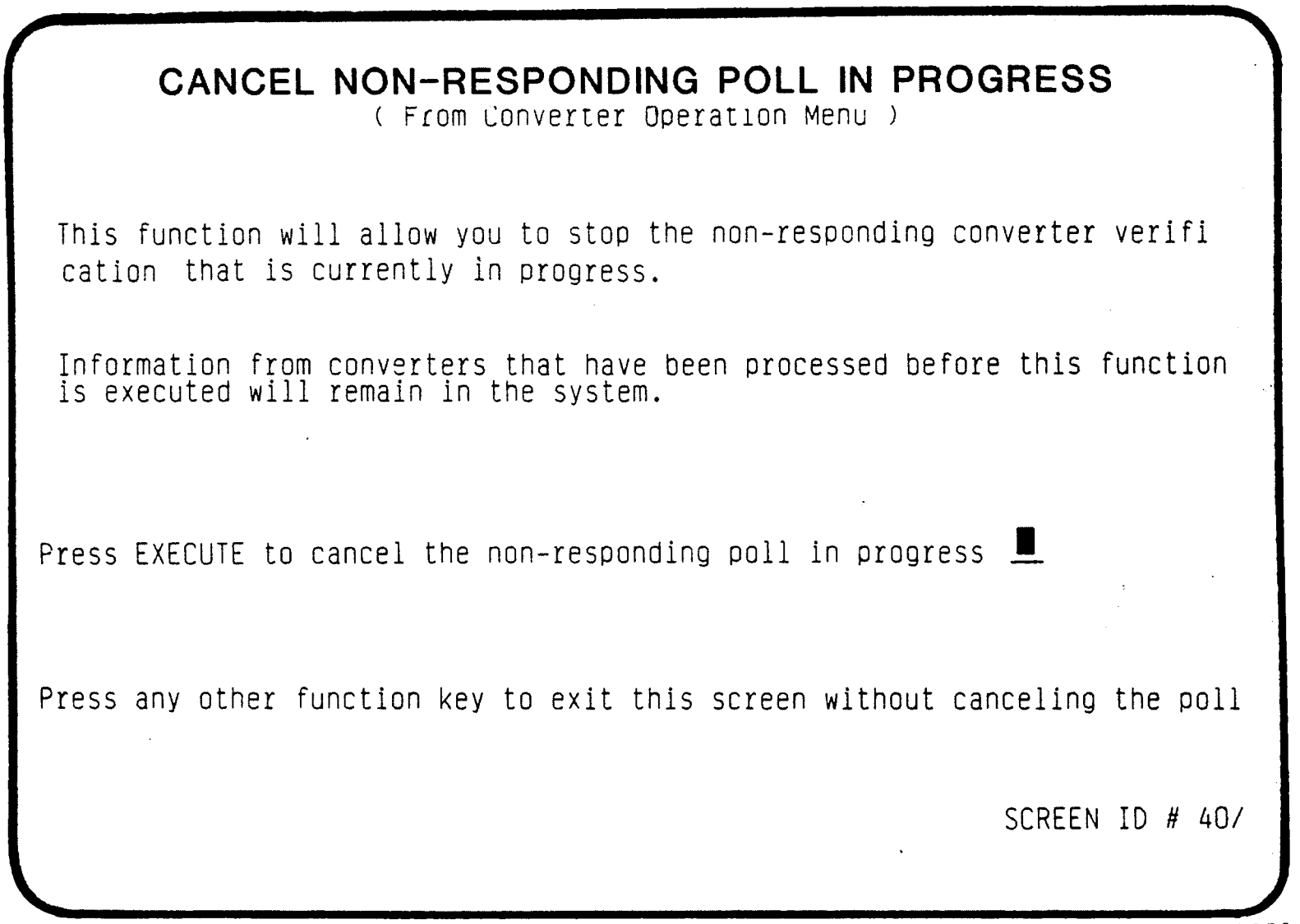
(From Headend Operations Menu)

	Channel Tuned	Modulated Channel
Channel Cross Reference Table: 1		
	1	A002
	2	A002
	3	A003
	4	A004
	5	A005
	6	A006
	7	A007
	8	A008
	9	A009
	10	A010
	11	A011
	12	A012
	13	A013
	14	A014
	15	A015

Are you sure (Y/N)?

SCREEN ID # 38/

JP01058


CANCEL NON-RESPONDING POLL IN PROGRESS
(From Converter Operation Menu)
This function will allow you to stop the non-responding converter verifi cation that is currently in progress.
Information from converters that have been processed before this function is executed will remain in the system.
Press EXECUTE to cancel the non-responding poll in progress
Press any other function key to exit this screen without canceling the poll
SCREEN ID # 40/

JP01059

3.40.1 Cancel Non-Responding Poll in Progress

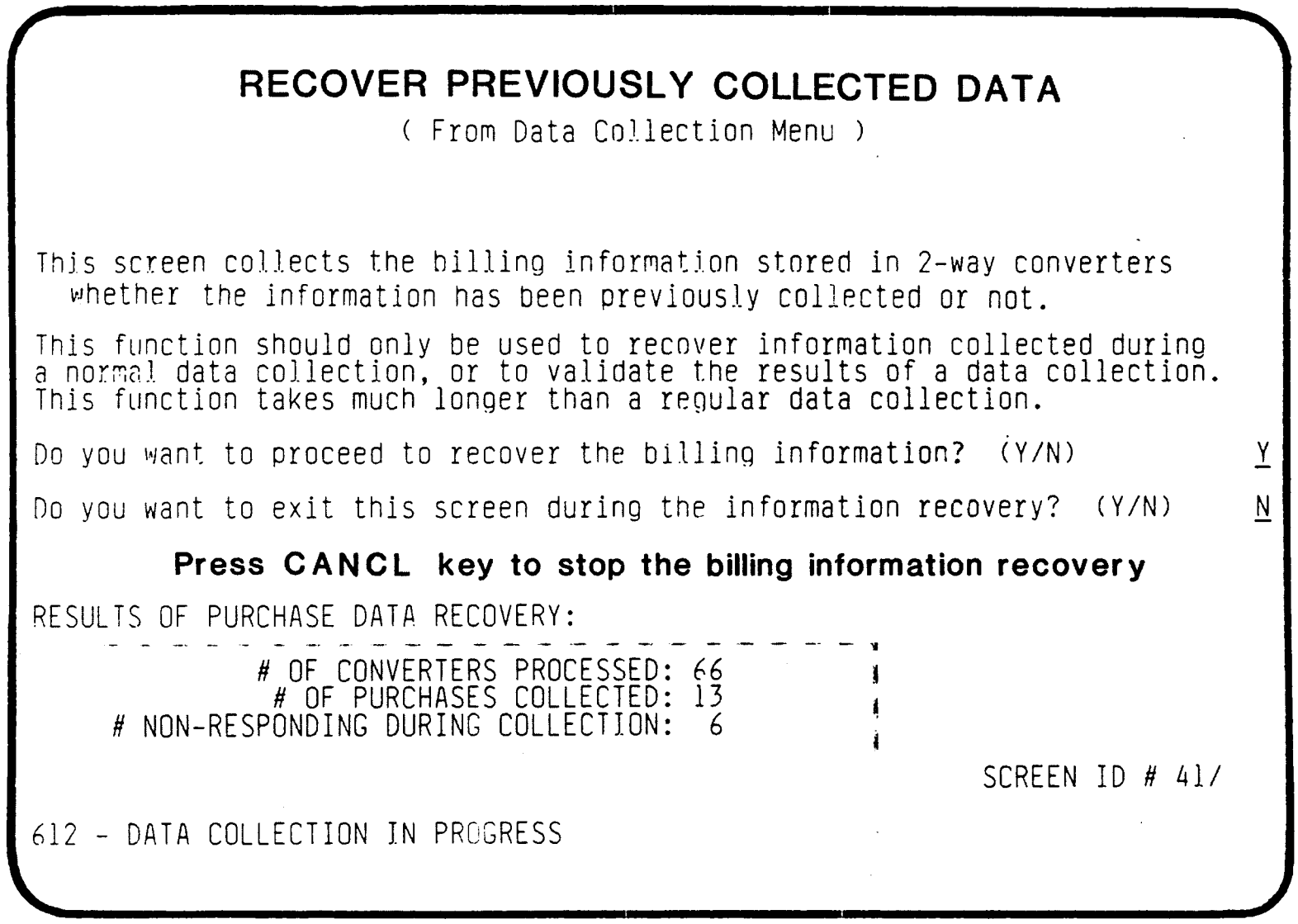
While performing the non-responding converter poll (screen 23), it might become necessary to stop the opinion poll. This function permits temporary stoppage of the poll. Information gathered up to the time the poll is stopped is retained in the system. When the cable operator reinitiates the poll, the AH-4 uses the information stored and completes the poll.

3.40.2 Procedure

a. From any menu screen, press 40 ⟨GO TO SCREEN⟩. When the screen comes up the cursor is blinking at the ⟨EXECUTE⟩ field.

b. Press ⟨EXECUTE⟩ to cancel the non-responding poll in progress.

c. To exit the screen, press the ⟨PREVIOUS SCREEN⟩ key.


RECOVER PREVIOUSLY COLLECTED DATA
(From Data Collection Menu)
This screen collects the billing information stored in 2-way converters whether the information has been previously collected or not.
This function should only be used to recover information collected during a normal data collection, or to validate the results of a data collection. This function takes much longer than a regular data collection.
Do you want to proceed to recover the billing information? (Y/N) Y
Do you want to exit this screen during the information recovery? (Y/N) N
Press CANCL key to stop the billing information recovery
RESULTS OF PURCHASE DATA RECOVERY:
OF CONVERTERS PROCESSED: 66
OF PURCHASES COLLECTED: 13
NON-RESPONDING DURING COLLECTION: 6
SCREEN ID # 41/
612 - DATA COLLECTION IN PROGRESS

3.41.1 RECOVER PREVIOUSLY COLLECTED DATA

This screen enables the user to collect ALL purchases made by subscribers.

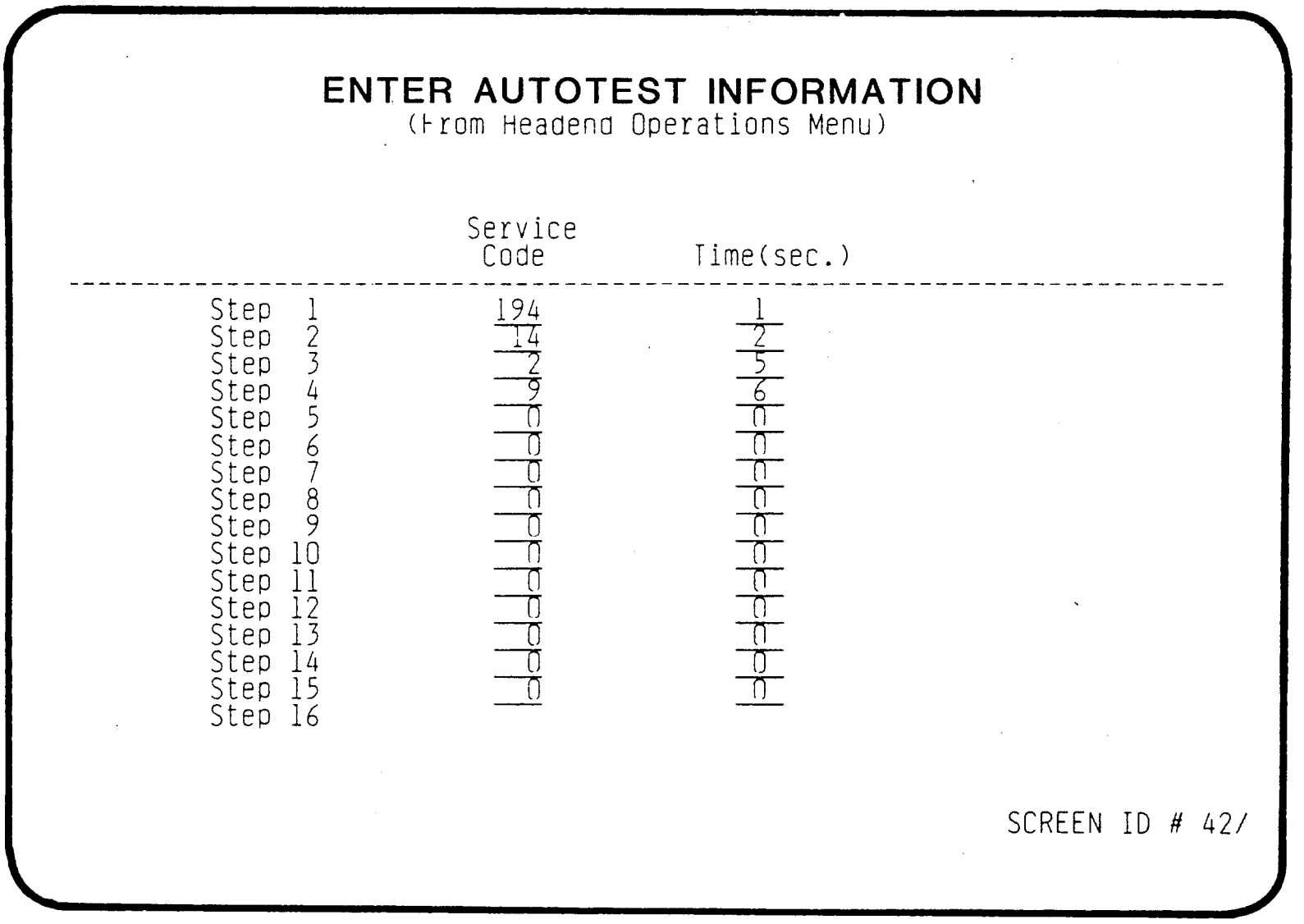
3.41.2 Procedure

a. From any menu screen, enter 41 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the right-hand side of the screen.

b. 1. Enter ⟨RETURN⟩ if you wish to recover data and not wait for results. The system will collect results but you will be returned to the Data Collection Menu.

2. Enter W ⟨RETURN⟩ if you wish to recover data and wait for results. The system will send message 616 — Preparing for Collection of All Purchases, followed by 612 — Data Collection in progress. When the system has collected the information, it will be displayed in the results field.
3. Enter C to cancel the data collection. The system will send two messages 627 — Cancel Key Depressed — Cancelling the current poll, followed by 619 — Data Collection Cancelled.

c. To exit this screen after steps b.2 and b.3, press ⟨PREVIOUS SCREEN⟩ key.



3.42.1 Enter Autotest Information

This screen enables the user to enter the information to be used by the converter during an autotest.

3.42.2 Procedure

a. From any menu screen, enter 42 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the Step 1 service code field.

b. Enter the service code to be used in the first step of the autotest ⟨RETURN⟩. The cursor will then move to the time field.

c. Enter the length (in seconds) that the service code is to be run ⟨RETURN⟩. The cursor will then move to the Step 2 service code field.

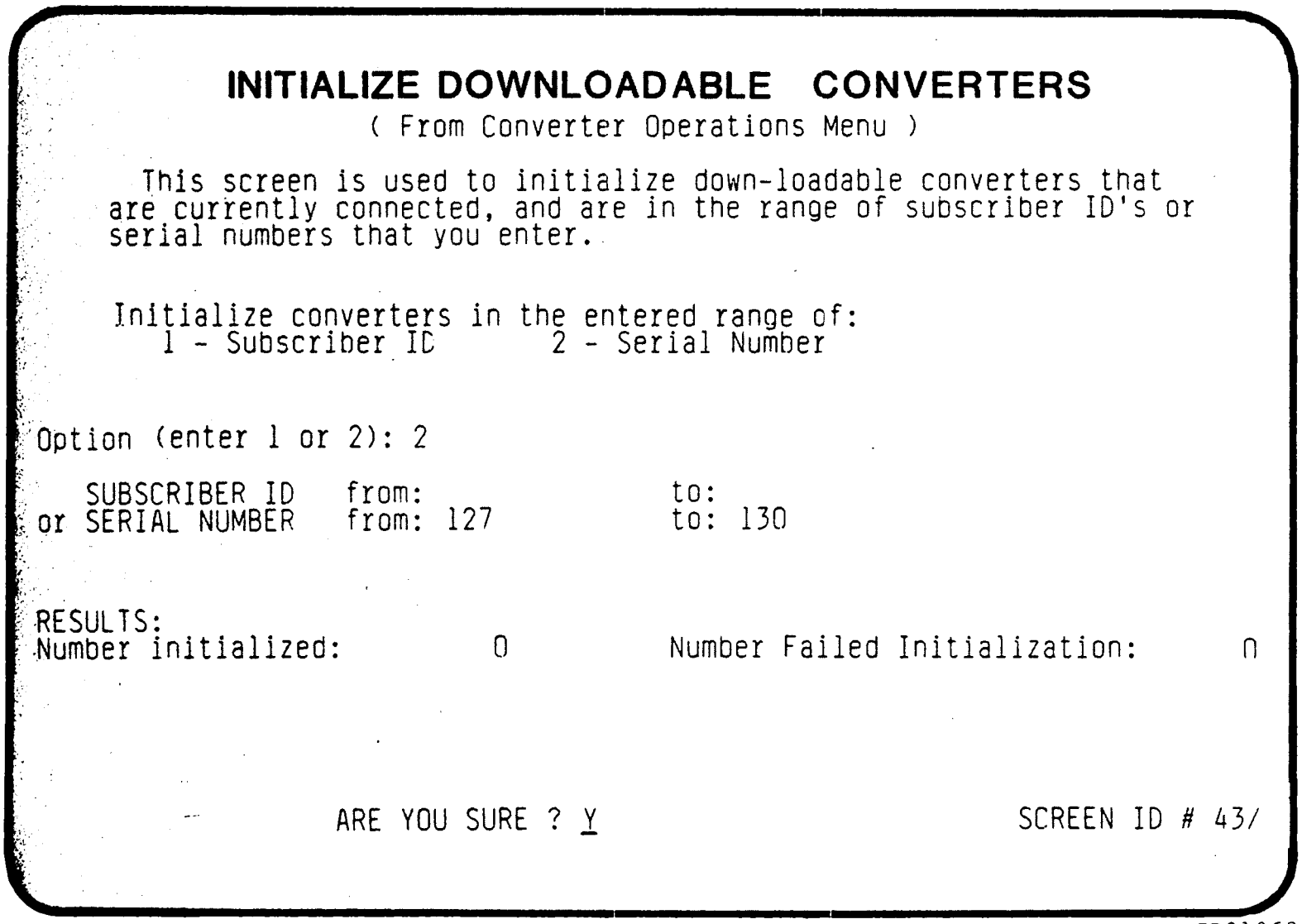
d. Enter the service code to be used in the second step. The cursor will then move to the time field.

e. Enter the length (in seconds) that the service code is to be run ⟨RETURN⟩. The cursor will then move to the step 3 field.

f. Enter the service code and length it is to be used until the 16 steps are filled in.

g. Press ⟨EXECUTE⟩ key. The system will send message 423 — Working.

h. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.


INITIALIZE DOWNLOADABLE CONVERTERS
(From Converter Operations Menu)
This screen is used to initialize down-loadable converters that are currently connected, and are in the range of subscriber ID's or serial numbers that you enter.
Initialize converters in the entered range of:
1 - Subscriber ID
2 - Serial Number
Option (enter 1 or 2): 2
SUBSCRIBER ID from: to:
or SERIAL NUMBER from: 127 to: 130
RESULTS:
Number initialized: 0
Number Failed Initialization: 0
ARE YOU SURE ? Y
SCREEN ID # 43/

JP01062

3.43.1 Initialize Downloadable Converters

This function permits the cable operator to initialize downloadable converters.

3.43.2

a. From any menu screen enter 43 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the Option field.

b. Select the option you wish. Note the corresponding number 1 or 2.

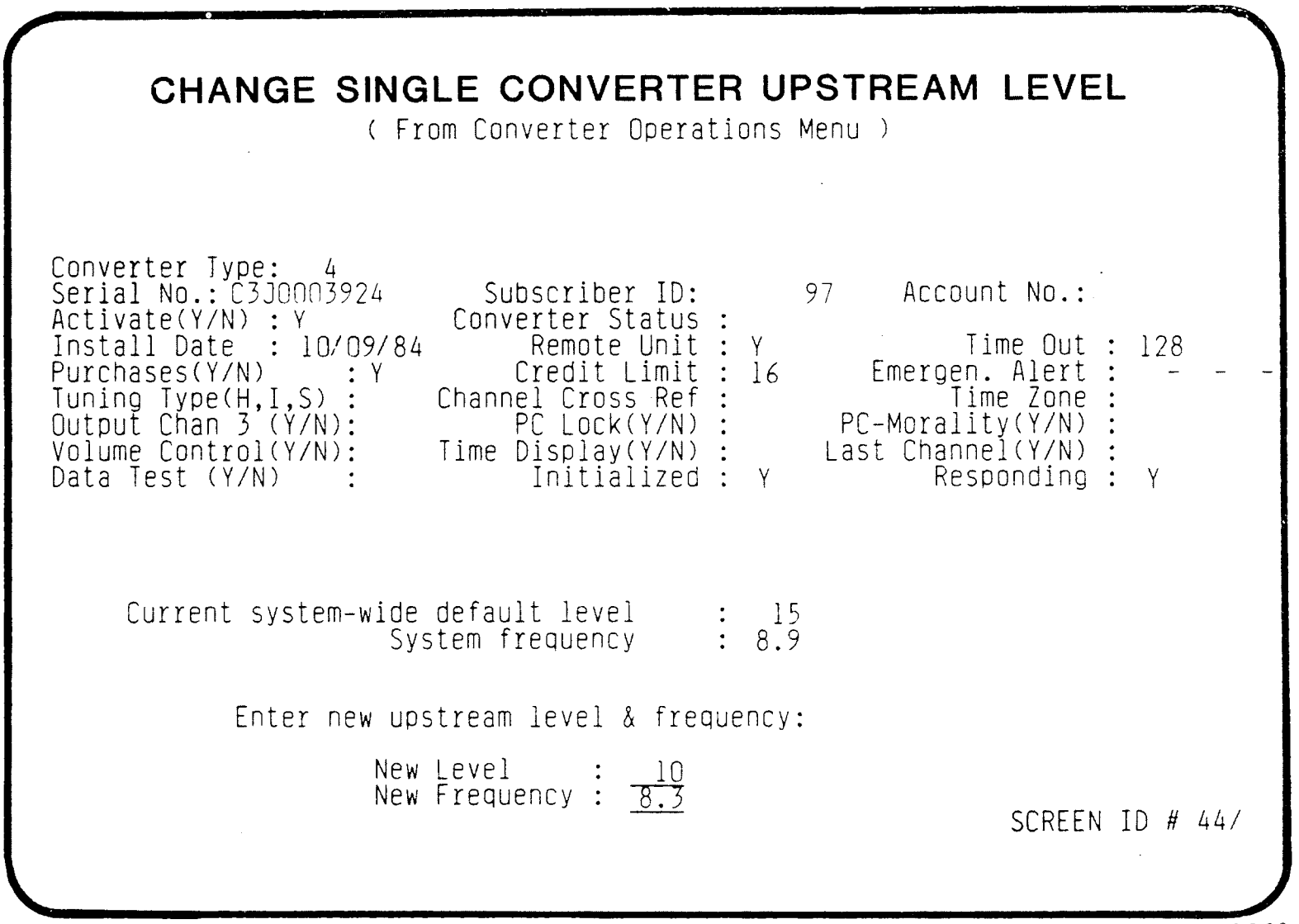
c. Enter the option ⟨RETURN⟩. The cursor will then move to "From" field. Enter the number with which you wish the report to start ⟨RETURN⟩. The cursor will then move to the "to" field.

d. Enter the number with which you wish the initialization to start.

e. The cursor will then move to the "to" field. Enter the number with which the initialization is to stop ⟨RETURN⟩ The cursor will then move to the "Are you sure?" field.

f. Enter Y ⟨EXECUTE⟩ if you are sure or N ⟨EXECUTE⟩ if you are not sure.

g. The system will then initialize and send a message that the converter is responding. The printer will give a printout as each converter responds.



3.44.1 Change Single Converter Upstream Level

This screen allows the operator to change the upstream level and frequency of a single converter.

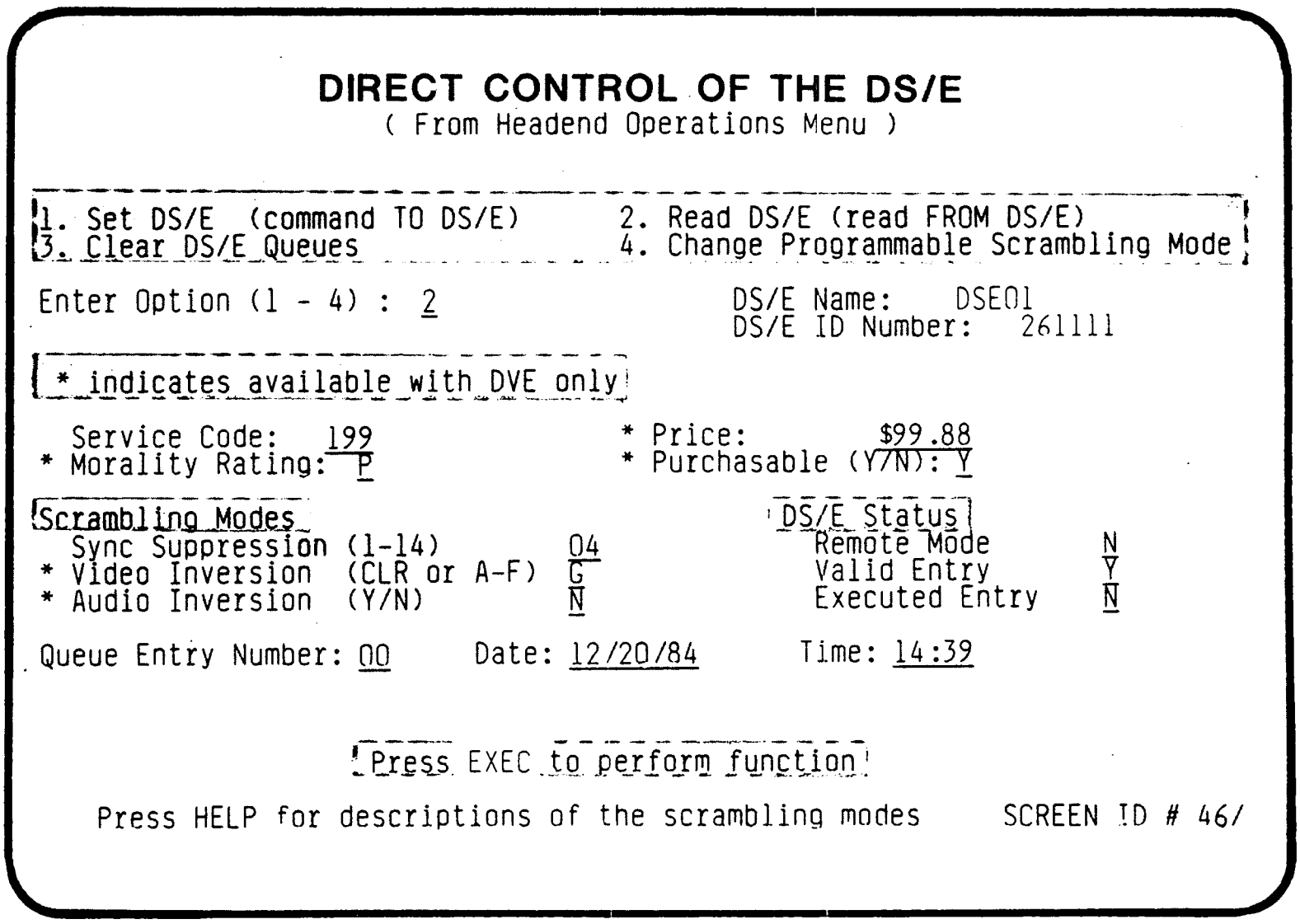
3.44.2 Procedure

a. From any menu screen enter 44 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the serial number field.

b. Enter the serial number of the converter whose upstream level you wish to change. The remaining portion of the display screen will fill in. The current system-wide default level and system frequency will also fill in. The cursor will blink at The New level field.

c. Enter the new level for the converter ⟨RETURN⟩. The cursor will now move to the new frequency field.

d. Enter the converter's new frequency. Press the ⟨EXECUTE⟩ key. The system accepts the information. The screen will then clear itself. To exit from this screen, press ⟨PREVIOUS SCREEN⟩.


DIRECT CONTROL OF THE DS/E
(From Headend Operations Menu)
1. Set DS/E (command TO DS/E)
2. Read DS/E (read FROM DS/E)
3. Clear DS/E Queues
4. Change Programmable Scrambling Mode
Enter Option (1 - 4) : 2
DS/E Name: DSE01
DS/E ID Number: 261111
* indicates available with DVE only
Service Code: 199
* Morality Rating: P
* Price: $99.88
* Purchasable (Y/N): Y
Scrambling Modes
Sync Suppression (1-14) 04
* Video Inversion (CLR or A-F) G
* Audio Inversion (Y/N) N
DS/E Status
Remote Mode N
Valid Entry Y
Executed Entry N
Queue Entry Number: 00
Date: 12/20/84
Time: 14:39
Press EXEC to perform function
Press HELP for descriptions of the scrambling modes
SCREEN ID # 46/

3.46.1 DIRECT CONTROL OF THE DS/E

The screen enables the cable operator to control any DS/E or check its status. The DS/E's service code, event flag, cost, and morality or a program are controlled through this screen.

3.46.2 Procedure

a. From any menu screen, enter 46 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the Option field.

b. Select the option you wish. Note the corresponding number. Enter the number ⟨RETURN⟩.

c. 1. If you entered Option 1 — Set DS/E, the cursor will move to the name field.

a. Enter the name of the DS/E to receive the specified scrambling values ⟨RETURN⟩. The cursor will then fill in the remainder of the screen and return to the service code field. Enter the information for each field, pressing ⟨RETURN⟩ after each entry.

b. When all information has been entered, press ⟨EXECUTE⟩ key. The system will send message DS/E Scrambling mode set.

DS/E PROGRAMMABLE SCRAMBLING MODE

(From DS/E Direct Control Screen)

1. Set DS/E (command TO DS/E) Programmable Scrambling Mode
2. Read DS/E (read FROM DS/E) Programmable Scrambling Mode

Enter Option (1 or 2): 2

DS/E Name: DEBBE
DS/E ID Number: 261111

Dynamic Mode Type (1-8): 1

1. Pseudo-random 6/10/CLEAR
2. Pseudo-random 6/CLEAR
3. Pseudo-random 10/CLEAR
4. Pseudo-random 6/10
5. Linear 6/10/CLEAR
6. Linear 6/CLEAR
7. Linear 10/CLEAR
8. Linear 6/10

Time between mode changes (HH:MM:SS:TT): 10:10:10:10

Press EXEC to perform function

SCREEN ID # 46A/

JP01065

HELP SCREENS FOR DIRECT CONTROL OF DS/E

Scrambling Modes:

Sync Suppression: 1 - 14

PR = pseudo-random

1. Standby
2. Clear
3. 6 dB Constant
4. 10 dB Constant
5. Dynamic Programmed
6. 6/10 PR, 30 sec interval
7. 6/10 PR, 1 min interval
8. 6/10 PR, 16 tics interval
9. 6/10 PR, 3 sec interval
10. 6/10CLEAR PR, 1 min interval
11. 6/10/CLEAR PR, 3 sec interval
12. 6/10/CLEAR PR, 15 sec interval
13. 10/CLEAR PR, 16 tics interval
14. 10/CLEAR PR, 3 sec interval

Video Inversion (DV/E only): CLR, A-F

CLR -- Clear
A -- Scene Change Field Inversion
B -- Scene Change Line Inversion
C -- Constant Video Inversion
D -- Constant Line Inversion
E -- Timed Field Inversion
F -- Timed Line Inversion

Press HELP for more help or RETURN to continue data entry SCREEN ID # H046A

JP01066

HELP SCREENS FOR DIRECT CONTROL OF DS/E
(Continued)

Options:
Set DS/E - Sends commands to the DS/E to set the specified scrambling values

Read DS/E - Reads the current values from the DS/E and displays those values on the screen. The status of the data read is displayed also.

Clear DS/E queue - All values for scheduling previously entered into the DS/E queue will be cleared.

Change Programmable Scrambling Mode - Displays a screen that allows the operator to choose from additional scrambling modes.

Other Information:
DS/E Name - A 10 character logical name assigned in the DS/E definition screen. DS/E may be addressed by either its logical name or logical address.

DS/E ID Number - The unique logical address of the DS/E.

Service Code - The tag to be broadcast with the video.

Press HELP for more help or RETURN to continue data entry

SCREEN ID # H046B

JP01067

HELP SCREENS FOR DIRECT CONTROL OF DS/E
(Continued)

Programmable Scrambling Mode - "Y" will cause the Set DS/E Programmable Scrambling Mode screen to be displayed.

Queue Entry Number - All commands to the DS/E will cause an immediate broadcase or display information from the service currently being broadcast. If it is necessary to set up a future service, a different entry other than immediate (called entry 0) may be used. These entries can have values between 1 and 64, and require the time and date of the future service to be entered.

Additional DV/E information:
Price - The cost of the service.

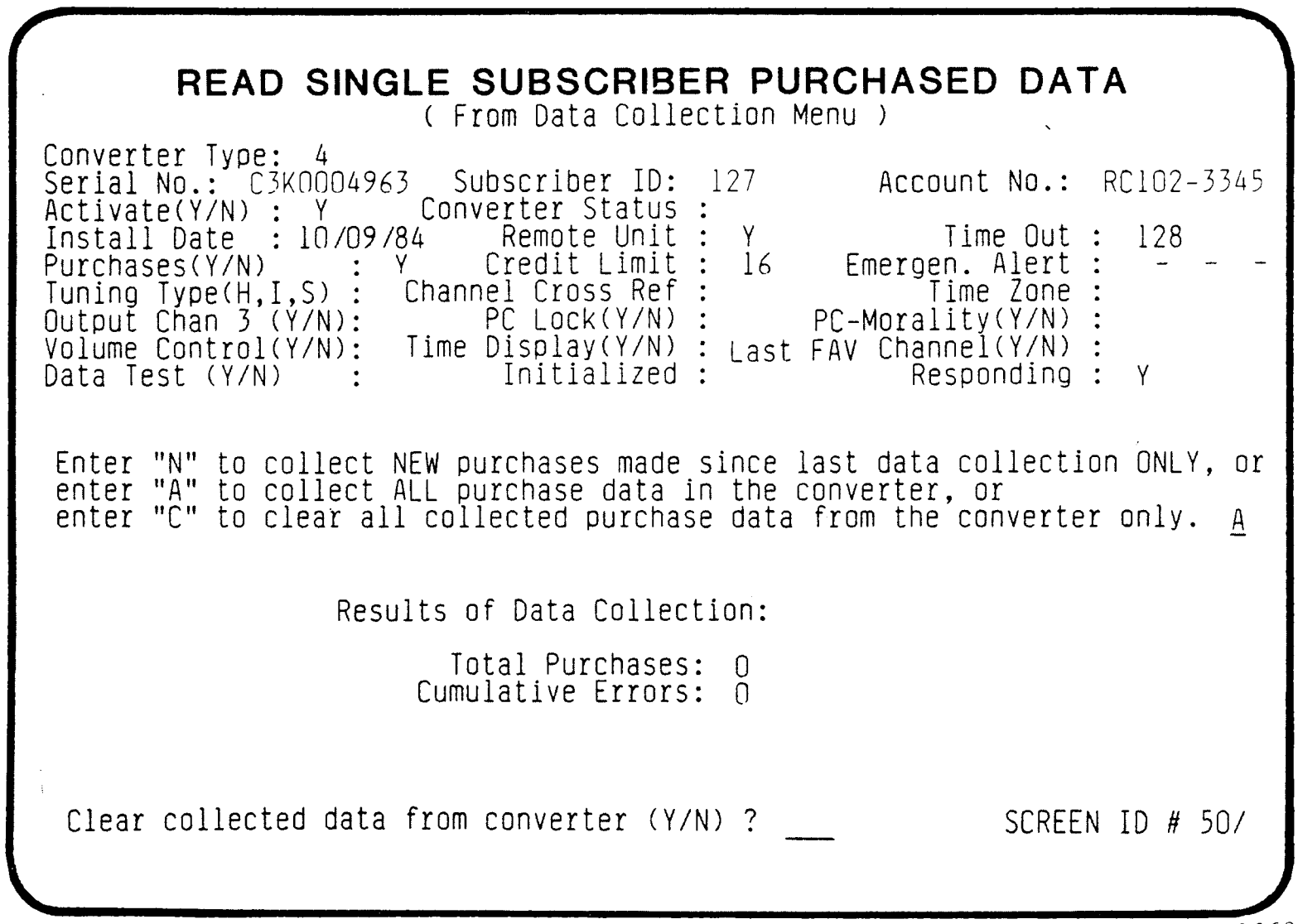
Morality Rating - One of the system predefined ratings, usually G, P, R or X.

Purchaseable - "Y" will allow the service to be locally purchased by a converter having that capability.

Press HELP for more help or RETURN to continue data entry

SCREEN ID # H046C

JP01068


READ SINGLE SUBSCRIBER PURCHASED DATA
(From Data Collection Menu)

Converter Type: 4
Serial No.: C3K0004963 Subscriber ID: 127 Account No.: RC102-3345
Activate(Y/N) : Y Converter Status :
Install Date : 10/09/84 Remote Unit : Y Time Out : 128
Purchases(Y/N) : Y Credit Limit : 16 Emergen. Alert : - - -
Tuning Type(H,I,S) : Channel Cross Ref : Time Zone :
Output Chan 3 (Y/N): PC Lock(Y/N) : PC-Morality(Y/N) :
Volume Control(Y/N): Time Display(Y/N) : Last FAV Channel(Y/N) :
Data Test (Y/N) : Initialized : Responding : Y

Enter "N" to collect NEW purchases made since last data collection ONLY, or
enter "A" to collect ALL purchase data in the converter, or
enter "C" to clear all collected purchase data from the converter only. A

Results of Data Collection:

Total Purchases: 0
Cumulative Errors: 0

Clear collected data from converter (Y/N) ? ___ SCREEN ID # 50/

3.50.1 Read Single Subscriber Purchase Data

This function enables the system to read each subscriber's purchased data. Through this screen the cable company can keep track of the new purchases made since the last data collection, as well as all purchase data in the converter. This screen will also clear the collected purchase data from the converter.

3.50.2

a. From any menu screen enter 50 ⟨GO TO SCREEN⟩. When the screen comes up the cursor will be blinking at the Serial Number field.

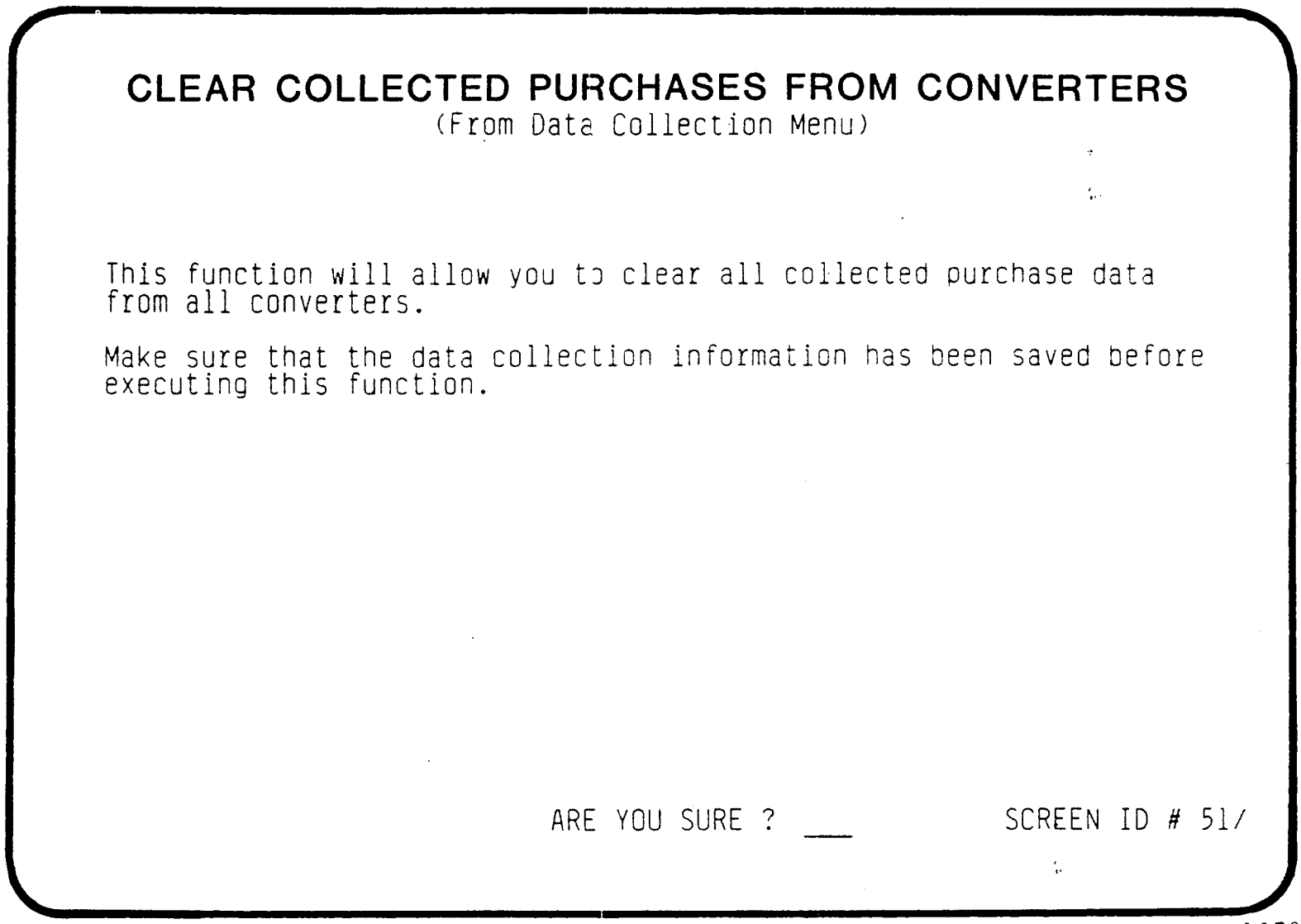
b. Enter either the serial number, Sub ID, or account number of the subscriber whose purchase data you wish to collect ⟨RETURN⟩. The display screen will automatically fill in and the cursor will blink Option Selection field.

c. Select which of the three options is wanted. Note the corresponding letter (N, A, or C).

d. Enter that letter ⟨RETURN⟩.

1. If "N" or "A" was selected, the system will display message 605 — Data Collection Started. When the collection is completed, the results will be displayed. The cursor will then move to the "clear" field.
   (a) Enter "Y" if you want the data cleared; enter "N" if you do not want the data cleared.
   (b) If "Y" was selected, the system will send message "427 — Collected Purchases Cleared".
   (c) If "N" was selected, the screen will clear itself.
2. If "C" was selected, the cursor will move to the "clear" field. Refer to steps d.1. (a) through d.1.(c).

e. To exit this screen press ⟨PREVIOUS SCREEN⟩ field.


CLEAR COLLECTED PURCHASES FROM CONVERTERS
(From Data Collection Menu)
This function will allow you to clear all collected purchase data from all converters.
Make sure that the data collection information has been saved before executing this function.
ARE YOU SURE ? ___
SCREEN ID # 51/

JP01070

3.51.1 Clear Collected Purchases From Converter

This function will enable an operator to clear all information about subscribers.

NOTE

Before this function is activated, make sure all information has been collected and is safely stored.

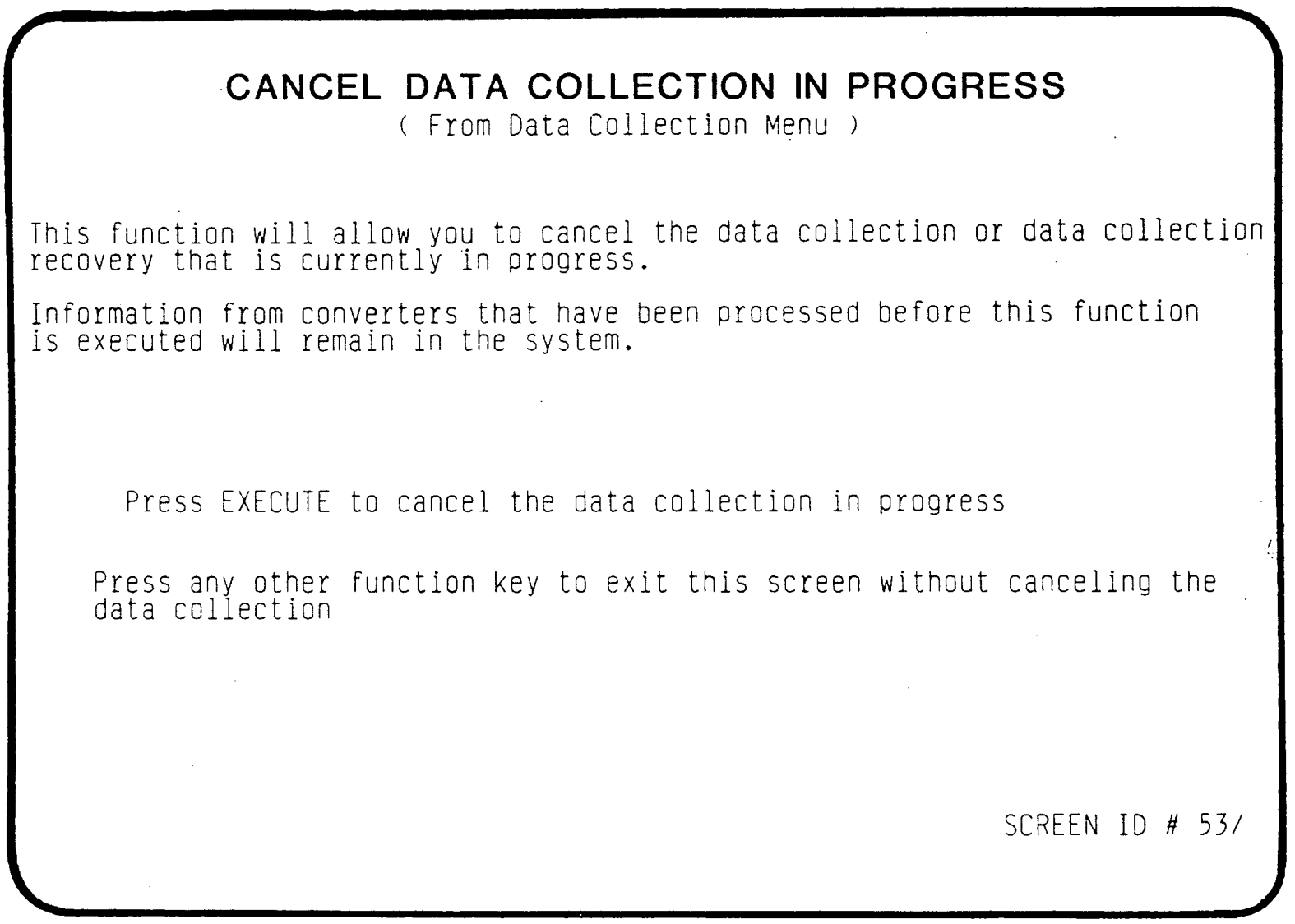
3.51.2

a. From any menu screen enter 51 ⟨GO TO SCREEN⟩. When the screen comes up the cursor will be blinking at the "Are You Sure?" field.

b. If you are sure, press "Y"; if you are not, press "N".

c. Press the ⟨EXECUTE⟩ key.
- If "Y" is entered, the system will clear the converters and send message 008 — All converters cleared of collected purchase.
- If "N" is entered, the screen will clear itself.

d. To exit this screen press ⟨PREVIOUS SCREEN⟩ key.


CANCEL DATA COLLECTION IN PROGRESS
(From Data Collection Menu)
This function will allow you to cancel the data collection or data collection recovery that is currently in progress.
Information from converters that have been processed before this function is executed will remain in the system.
Press EXECUTE to cancel the data collection in progress
Press any other function key to exit this screen without canceling the data collection
SCREEN ID # 53/

3.53.1 Cancel Data Collection In Progress

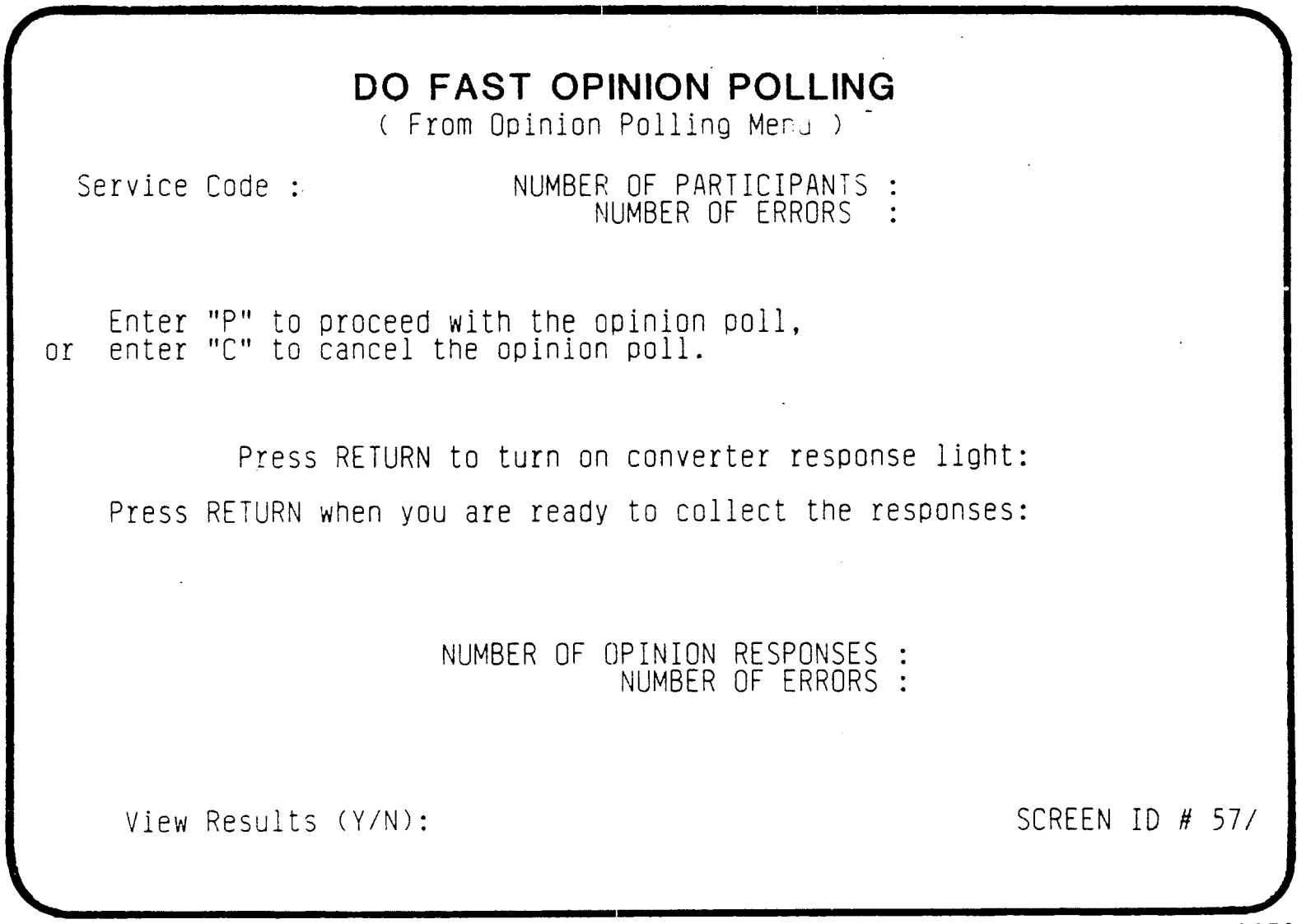
This screen permits the user to stop a data collection or data collection recovery that is currently in progress. Information collected prior to the implementation of this function is retained until the data collection is again started.

3.53.2 Procedure

a. From any menu screen enter 53 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the execute field.

b. Press ⟨EXECUTE⟩ to stop data collection. The system will send message 423 — Working. The data collection will stop.

c. To exit from this screen press ⟨PREVIOUS SCREEN⟩.


DO FAST OPINION POLLING
(From Opinion Polling Menu)
Service Code :
NUMBER OF PARTICIPANTS :
NUMBER OF ERRORS :
Enter "P" to proceed with the opinion poll,
or enter "C" to cancel the opinion poll.
Press RETURN to turn on converter response light:
Press RETURN when you are ready to collect the responses:
NUMBER OF OPINION RESPONSES :
NUMBER OF ERRORS :
View Results (Y/N):
SCREEN ID # 57/

3.57.1 Do Fast Opinion Polling

This screen enables the user to perform the Fast Opinion Polling function.

3.57.2 Procedure

From any menu screen enter 57⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the service code field.

a. Enter the service code ⟨RETURN⟩. The cursor will then move to the Enter field.

b. Enter P to initiate the opinion poll or C to cancel the poll.
If P was entered, the system will send a message Poll in progress, go to step d. If C was entered, the screen will clear itself.

c. Press the ⟨RETURN⟩ key when ready to turn on the converter response light.

d. Press the ⟨RETURN⟩ when ready to collect the responses. The system will send message Collecting responses. The system will display both the number of responses and errors.

e. To view the results, enter "Y" ⟨RETURN⟩. Screen 57A will now appear and display results. If it is not desired to view results, enter N ⟨RETURN⟩. The screen will then clear itself.

OPINION POLLING RESPONSES

(From Fast Opinion Polling)

Service Code # : 14
Number Indifferent : 5

Number of Responses : 8
Percentage Indifferent : 62.50%

Response #	Number of Responses	Percentage
1	2	25.00%
2	1	12.50%
3	0	0.00%
4	0	0.00%
5	0	0.00%
6	0	0.00%
7	0	0.00%
8	0	0.00%
9	0	0.00%
10	0	0.00%
11	0	0.00%
12	0	0.00%
13	0	0.00%
14	0	0.00%

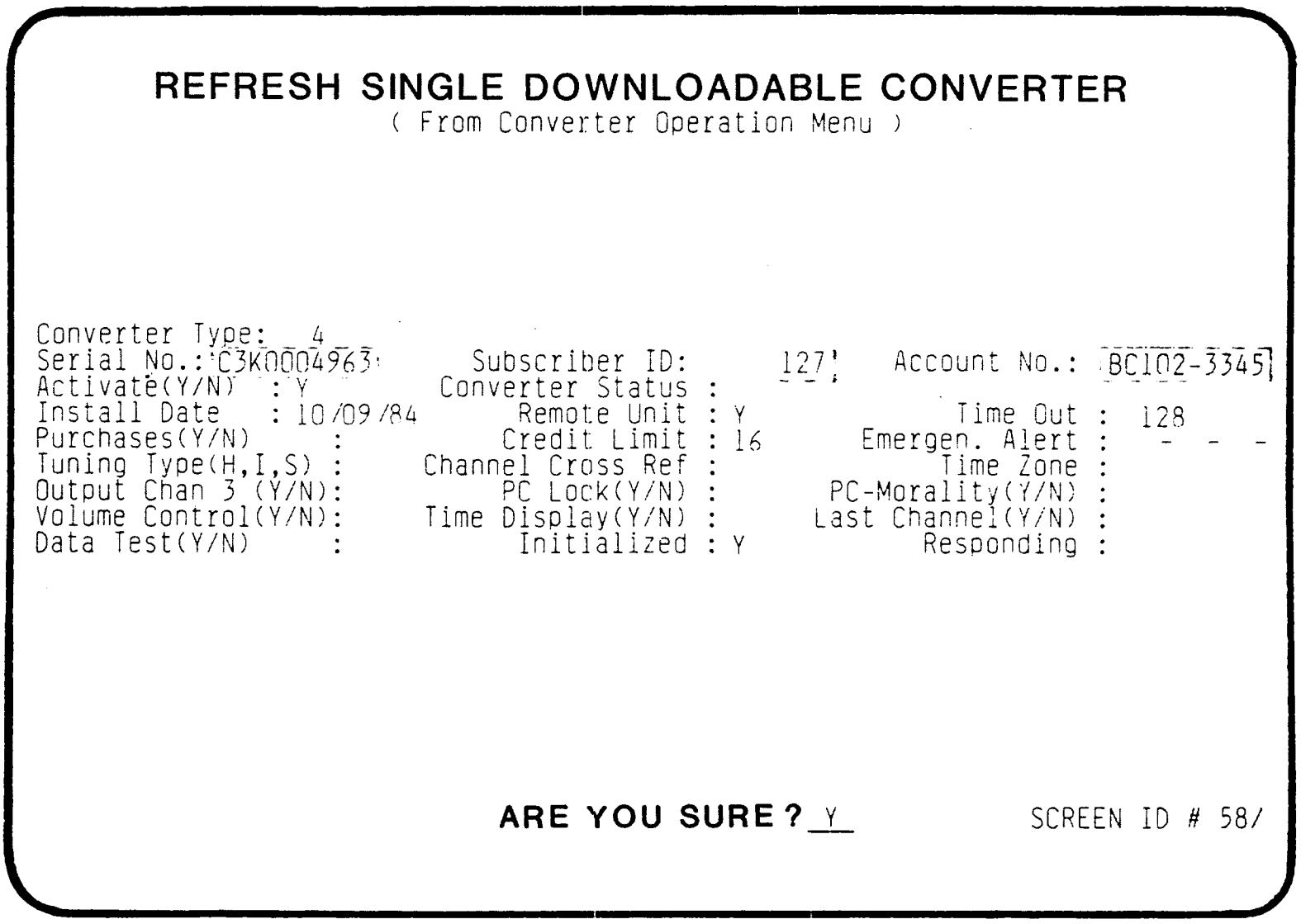
SCREEN ID 57A/

3.57A.1 Opinion Polling Responses

This screen displays the results of the fast opinion poll taken in Screen 57.

3.57A.2 Procedure

This screen comes up only if "Y" is entered in the "view results" field of Screen 57.



3.58.1 Refresh Downloadable Converter

This screen allows the operator to send all converter characteristics to a downloadable converter without destroying any purchase information that may be still contained in the converter.

NOTE

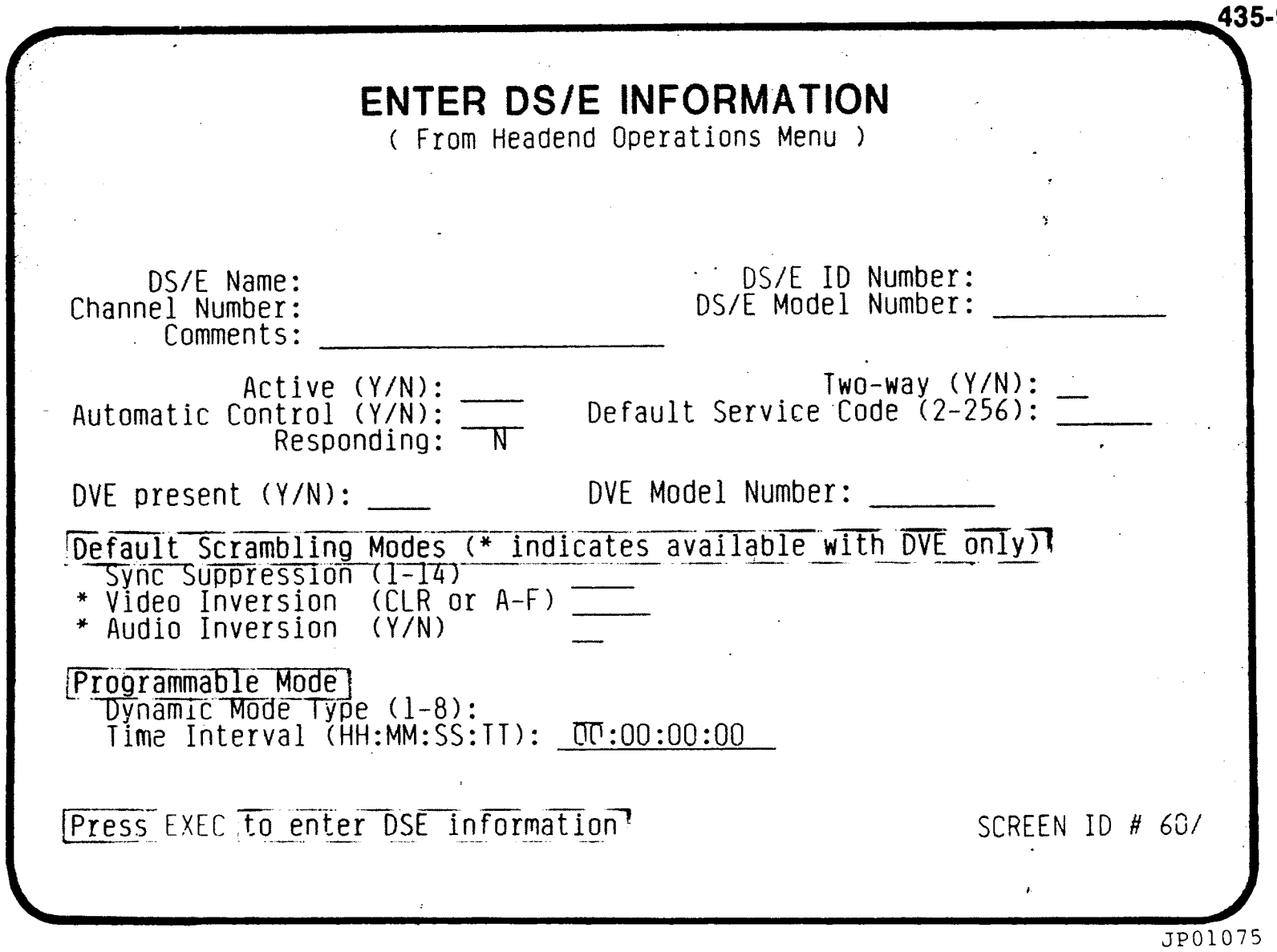
The converter must be initialized prior to performing this function.

3.58.2 Procedure

a. From any menu screen enter 58 ⟨GO TO SCREEN⟩. The cursor will be blinking at the serial number field. The pertinent information on the rest of the screen will fill in and the cursor will move to the "Are you sure?" field.

b. Enter "Y" ⟨RETURN⟩ if you are sure. Enter "N" ⟨RETURN⟩ if you are not sure. If "Y" was entered, the system will "refresh" the converter and send message . If "N" was entered the screen will clear itself.

c. To exit this screen press ⟨PREVIOUS SCREEN⟩ key.



JP01075

3.60.1 ENTER DS/E INFORMATION

This screen enables the user to enter information about the DS/E.

3.60.2 Procedure

a. From any menu screen, enter 60 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be at the DS/E name field.

b. Enter the alphabetic name for this DS/E ⟨RETURN⟩. The cursor will move to the ID number field.

c. Enter the SUB ID in the proper range for the converter type ⟨RETURN⟩. The cursor will move to the channel number field.

d. Enter the channel number ⟨RETURN⟩. The cursor will move to the model number field.

e. Enter the model number ⟨RETURN⟩. The cursor will move to the model number field.

f. Enter comments as required ⟨RETURN⟩. The cursor will move to the active field.

g. State whether or not the DS/E is active (i.e., available for use in the system).⟨RETURN⟩. The cursor will move to the two-way field.

h. Indicate whether or not the DS/E is a two-way scrambler ⟨RETURN⟩. The cursor will move to the automatic control field.

i. Enter Y ⟨RETURN⟩ if the AH-4 will automatically schedule events for the DS/E. Enter N ⟨RETURN⟩ if the operator of the AH-4 must directly control the DS/E.. The cursor will move to the default service code.

j. Enter the service code to be transmitted in the tag ⟨RETURN⟩. The cursor will move to the DVE field.

k. If a DVE is attached to the DS/E enter Y ⟨RETURN⟩. If not, enter N ⟨RETURN⟩. The cursor will move to the model number field.

l. Enter the model number of the DVE ⟨RETURN⟩. If there is no DVE attached to the DS/E, press the ⟨NEXT FIELD⟩ key.

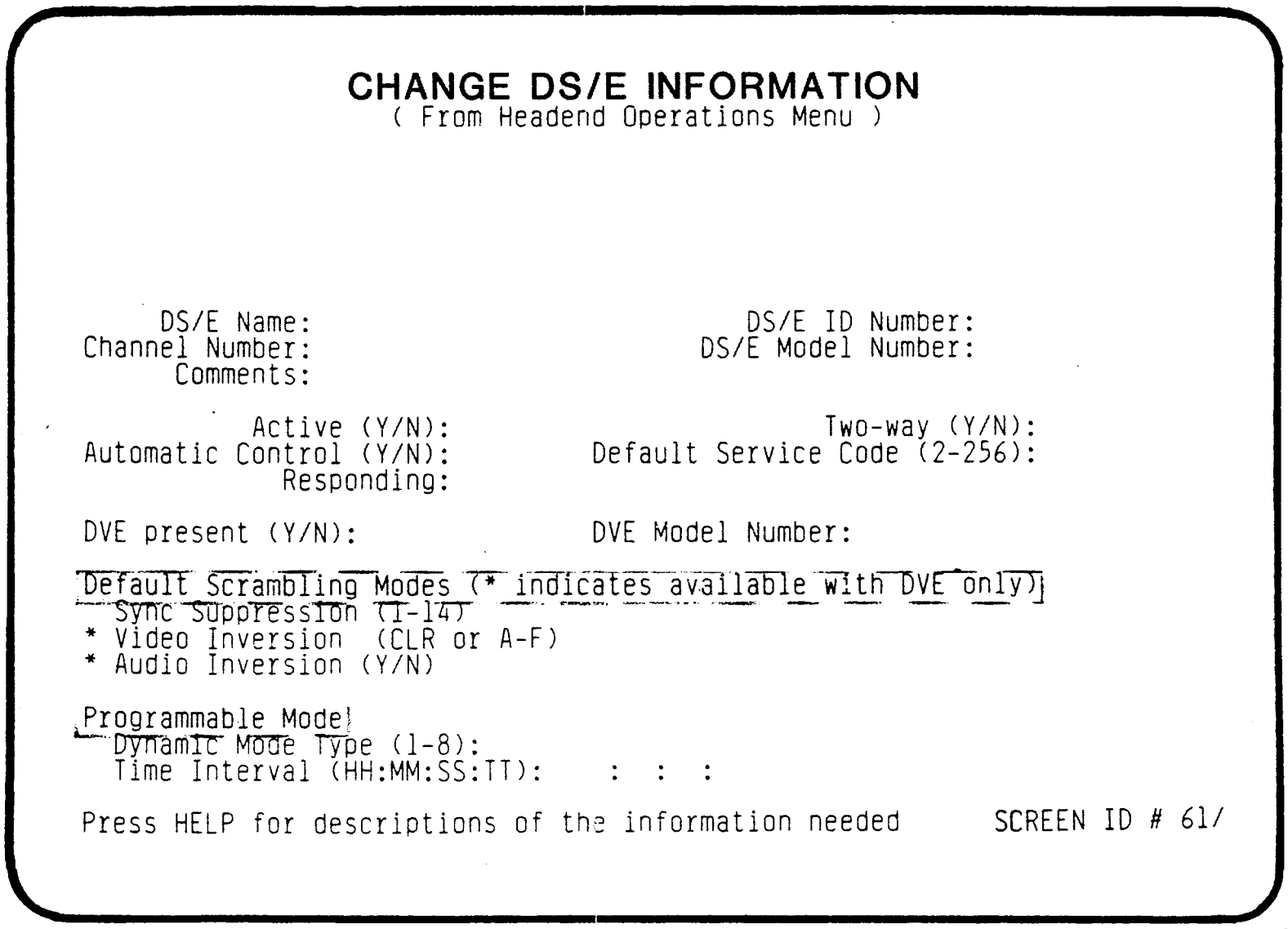
m. Enter the default scrambling modes ⟨RETURN⟩. Press the ⟨HELP⟩ key twice for detailed information if needed. The cursor will move to the programmable mode.

n. Enter programmable mode informaiton, pressing the return key after each entry is completed.

o. Check to make sure that each entry is complete and accurate.

p. Press the ⟨EXECUTE⟩ key to implement the information.

q. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.



3.61.1 CHANGE DS/E INFORMATION

This screen enables the user to change information about a specific DS/E.

3.61.2 Procedure

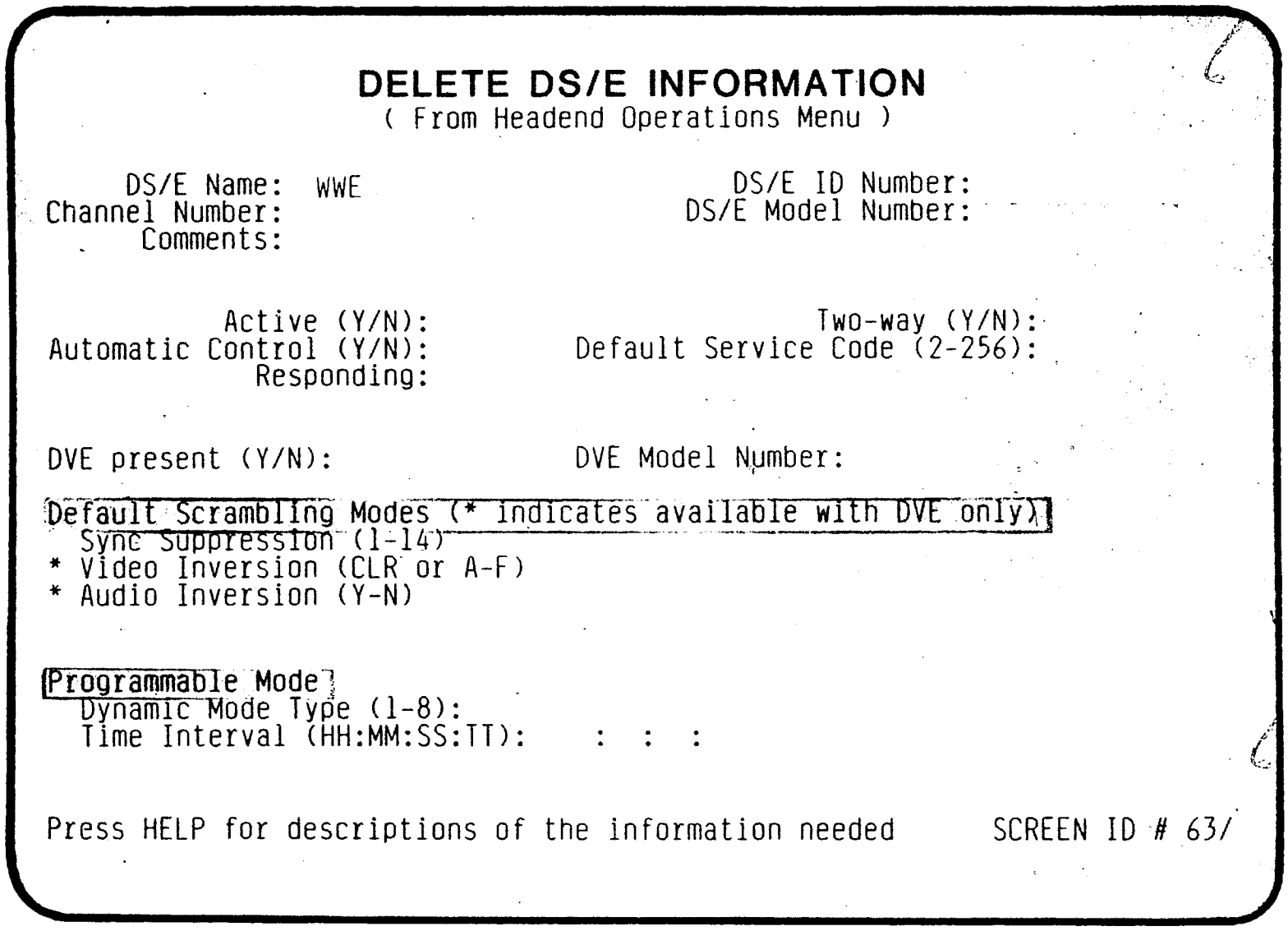
a. From any menu screen, enter 61 ⟨GO TO SCREEN⟩. The cursor will be blinking at the DS/E name field.

b. Enter the DS/E's name ⟨RETURN ⟩, or ID number ⟨RETURN⟩, or channel number ⟨RETURN⟩. The remaining fields in the screen will fill in automatically.

c. Using the ⟨PREVIOUS FIELD⟩ or ⟨NEXT FIELD⟩ keys as required, change the information necessary. Press the ⟨RETURN⟩ key after the information is entered.

d. Check the screen for accuracy. Press the ⟨EXECUTE⟩ key to implement changes.

e. To exit this screen, press the ⟨PREVIOUS SCREEN⟩ key.



3.63.1 DELETE DS/E INFORMATION

This screen will enable the user to delete all information about a specific DS/E.

3.63.2 Procedure

a. From any menu screen, enter 71 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the DS/E name field.

b. Enter either the DS/E name, ID number, or channel number ⟨RETURN⟩. The remaining fields in the screen will fill in.

c. Check to see that this is the correct DS/E to be deleted.

d. If it is the correct DS/E, press ⟨EXECUTE⟩ The system will delete information.

e. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.

CONVERTER QUALITY CONTROL

(From Converter Operations Menu)

This screen provides a quick method of deleting converters already in the AH4 system that are in the range of subscriber ID's, serial numbers or account numbers that you enter.

WARNING - This screen will delete the converters within the entered range - care should be taken with converters that did not respond and therefore may not be disconnected.

Delete converters in the entered range of:
1 - Subscriber ID 2 - Serial Number OR 3 - Account Number

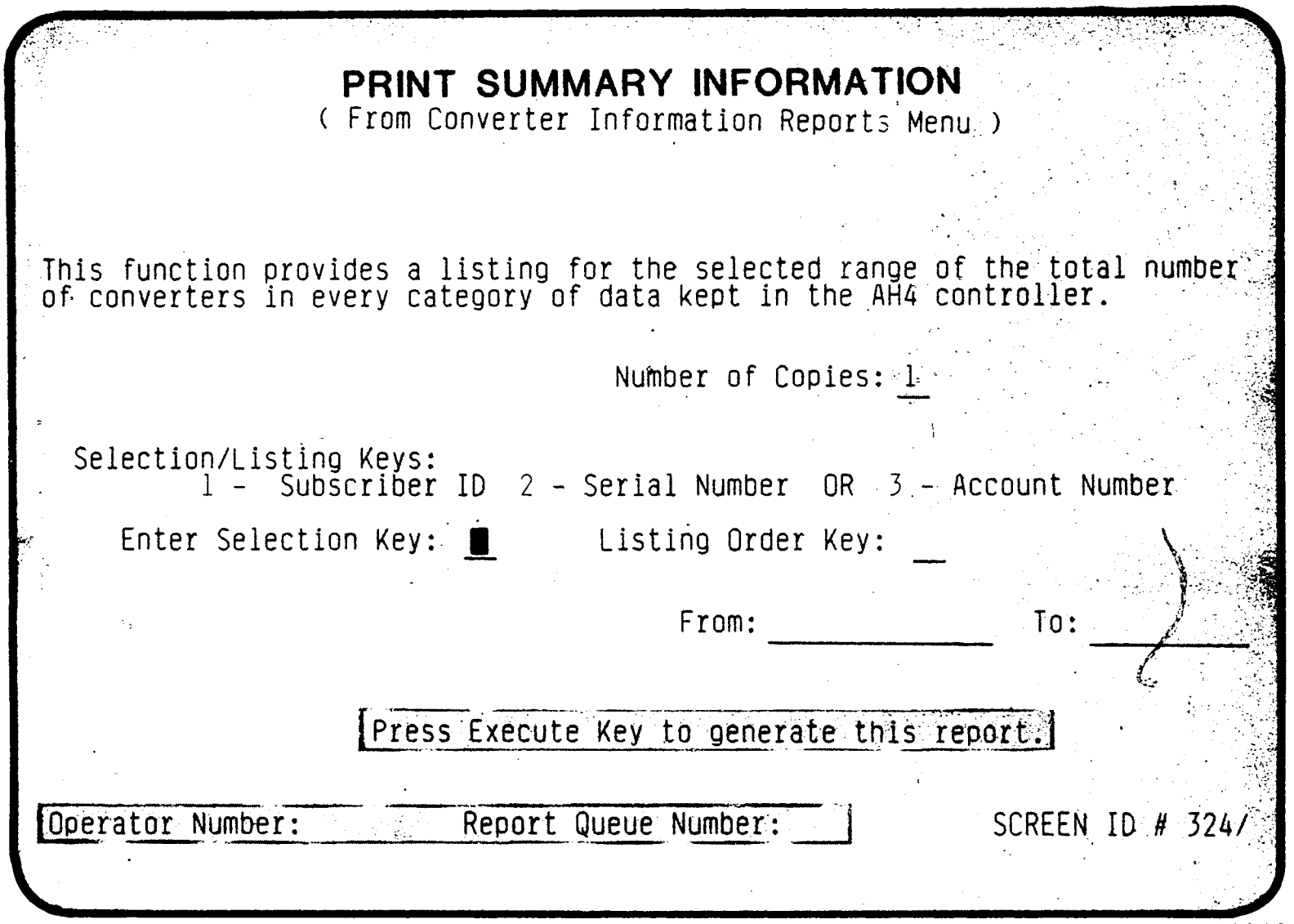
Enter Option (1, 2, or 3): 1

SUBSCRIBER ID from: _____ to: _____
or SERIAL NUMBER from: _____ to: _____
or ACCOUNT NUMBER from: _____ to: _____

ARE YOU SURE ? SCREEN ID # 71/

316 - Invalid Range - Range (1) to (3)

JP01079


PRINT SUMMARY INFORMATION
(From Converter Information Reports Menu)
This function provides a listing for the selected range of the total number of converters in every category of data kept in the AH4 controller.
Number of Copies: 1
Selection/Listing Keys:
1 - Subscriber ID 2 - Serial Number OR 3 - Account Number
Enter Selection Key:
Listing Order Key:
From:
To:
Press Execute Key to generate this report.
Operator Number:
Report Queue Number:
SCREEN ID # 324/

3.85.1 Print Summary Information

This function gives the user a printed summary of every converter category.

3.85.2 Procedure

a. From any menu screen enter 85 ⟨GO TO SCREEN⟩. When the cursor comes up, the system will be blinking at the selection key field.

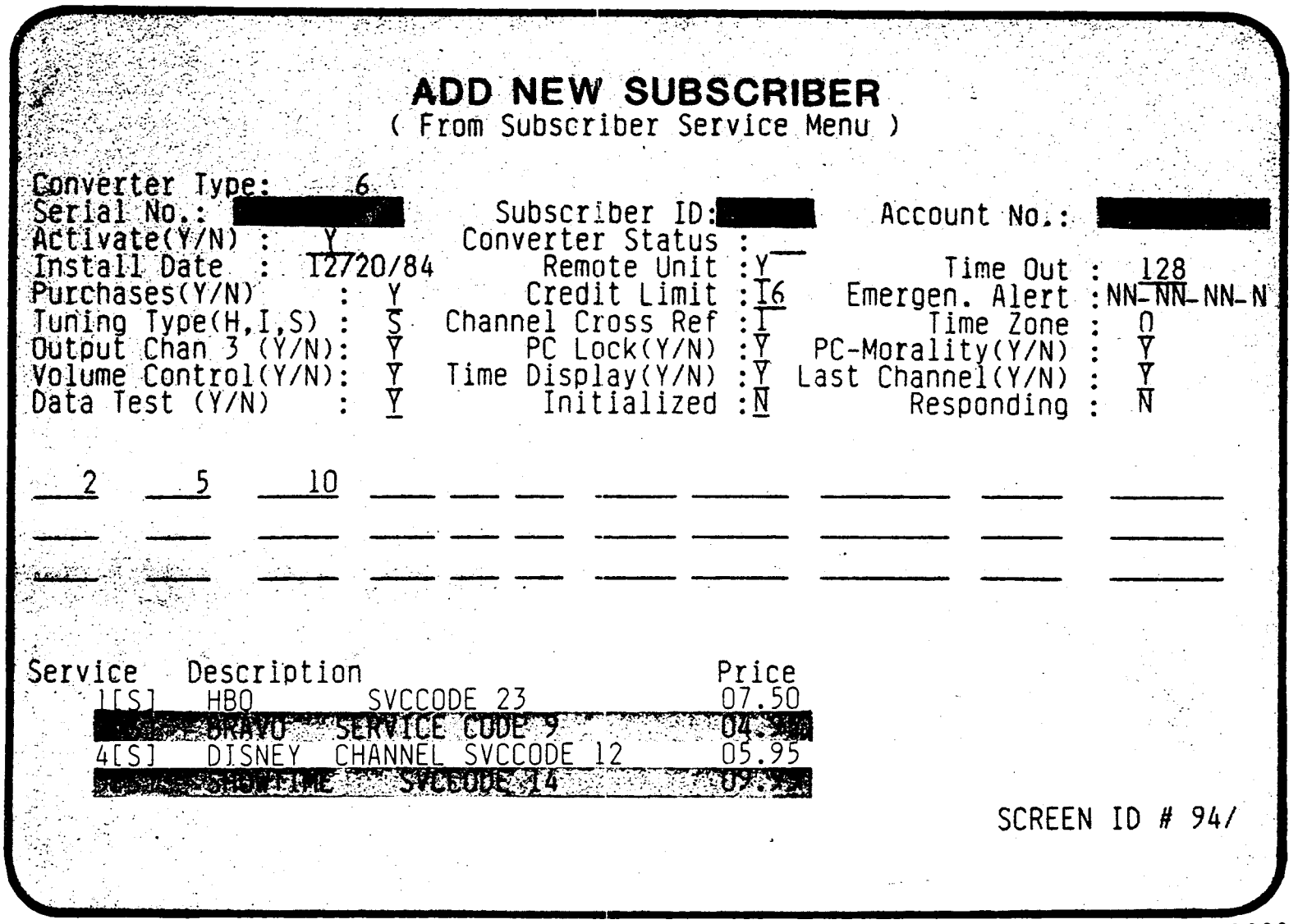
b. Select the way the report is to be generated. Note the corresponding number (1, 2, or 3).

c. Enter that number ⟨RETURN⟩. The cursor will then move to the "from" field.

d. Enter the number with which the report is to start ⟨RETURN⟩. The cursor will then move to the "to" field

e. Enter the number with which you wish the report to stop ⟨RETURN⟩. The system will then send you message "423 - Working," followed by "806 - Report being generated." The printer will print the report.

f. To exit from this poll, press the ⟨PREVIOUS SCREEN⟩ key.



JP01080

3.94.1 Add New Subscriber (Brief Display)

This screen enables the user to add a new subscriber. It is the shortened version of Screen 4.

3.94.2 Procedure

a. From any menu screen, enter 4 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the serial number field. Enter the serial number ⟨RETURN⟩. The cursor will move the subscriber ID field.

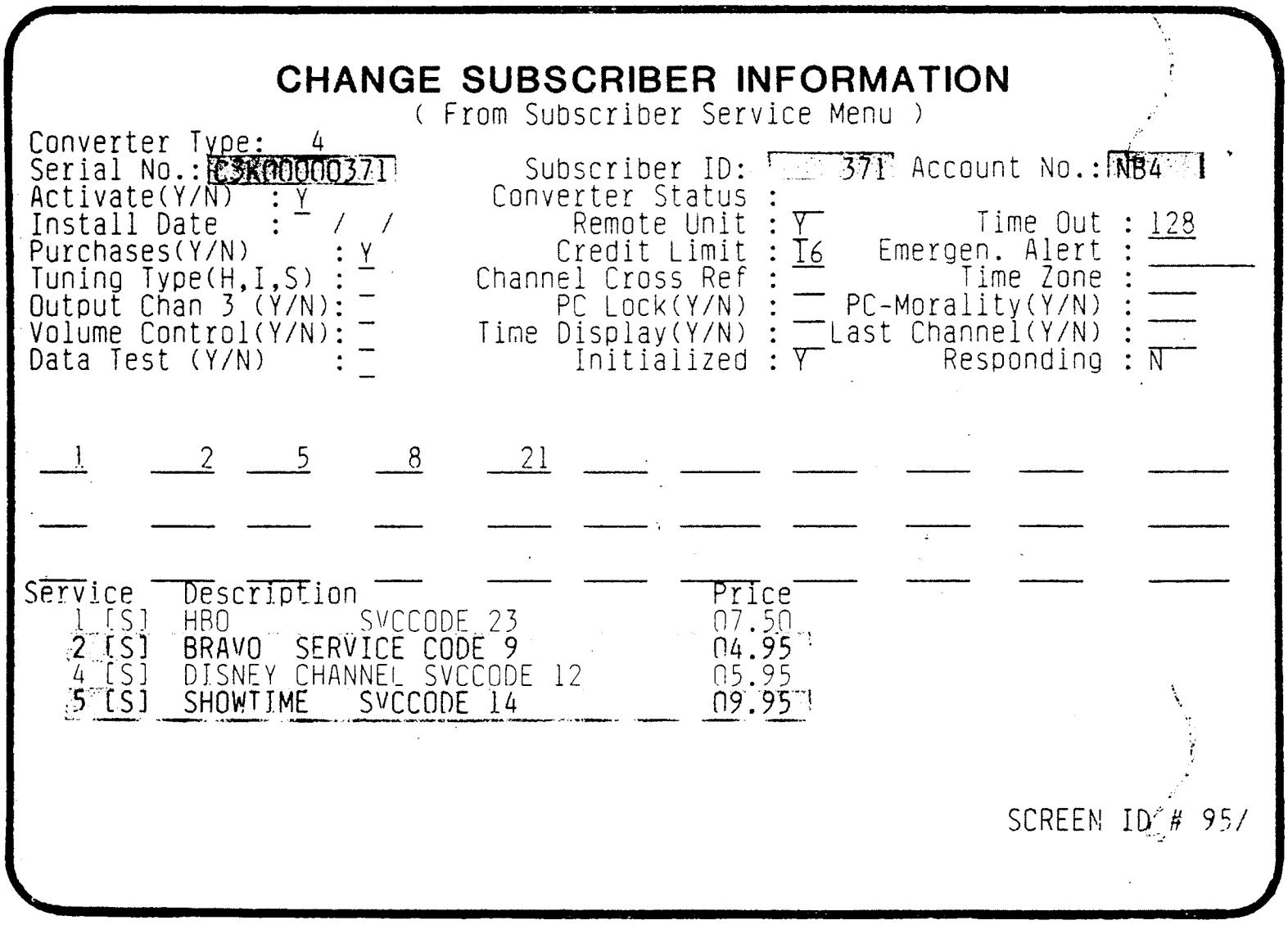
b. Press the ⟨RETURN⟩ key. The cursor will move to the Account field.

c. Fill in the remaining portion of the display section of the screen, pressing the ⟨RETURN⟩ key after each entry.

d. When at the paging section, enter the number that corresponds to the service to be authorized. Press the ⟨RETURN⟩ key after each authorization.

e. When finished entering the authorization, press the ⟨EXECUTE⟩ key. The system will send message 423 — Working, and the screen will then clear itself.

f. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.



3.95.1 Change Subscriber Information

This screen enables the user to change subscriber information. It is a shortened version of Screen 5.

3.95.2 Procedure

a. From any menu screen enter 95 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the serial number field.

b. Enter either the serial number, subscriber ID or account number of the subscriber whose information is to be changed. The remaining portion of the display screen will fill in.

c. Press ⟨BOTTOM⟩ key. The cursor will move to the paging section.

d. Add or delete the number that corresponds to the service to be added or deleted. Use the return key after each change.

e. When finished the changes, press the ⟨EXECUTE⟩ key. The system will then send message 423 — Working and will then clear itself.

f. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.

SCHEDULE POLLING

(From Headend Operations Menu)

This screen allows you to schedule the times and frequency for automatic non-responding converter polls and data collections.

If these functions are not scheduled to be performed automatically by the AH4 they may still be done on operator command from the appropriate screen.

You may choose to schedule 1 - Non-responding Converter Polling OR
2 - Data Collection

Enter 1 or 2 to select the function to be scheduled

Start time (HH:MM): :

How much time should be between polls 1 - A number of hours OR
2 - A number of days

Enter the frequency (1 or 2):

Enter the number of :

SCREEN ID # 99/

JP01082

1-WAY SYSTEM MENU

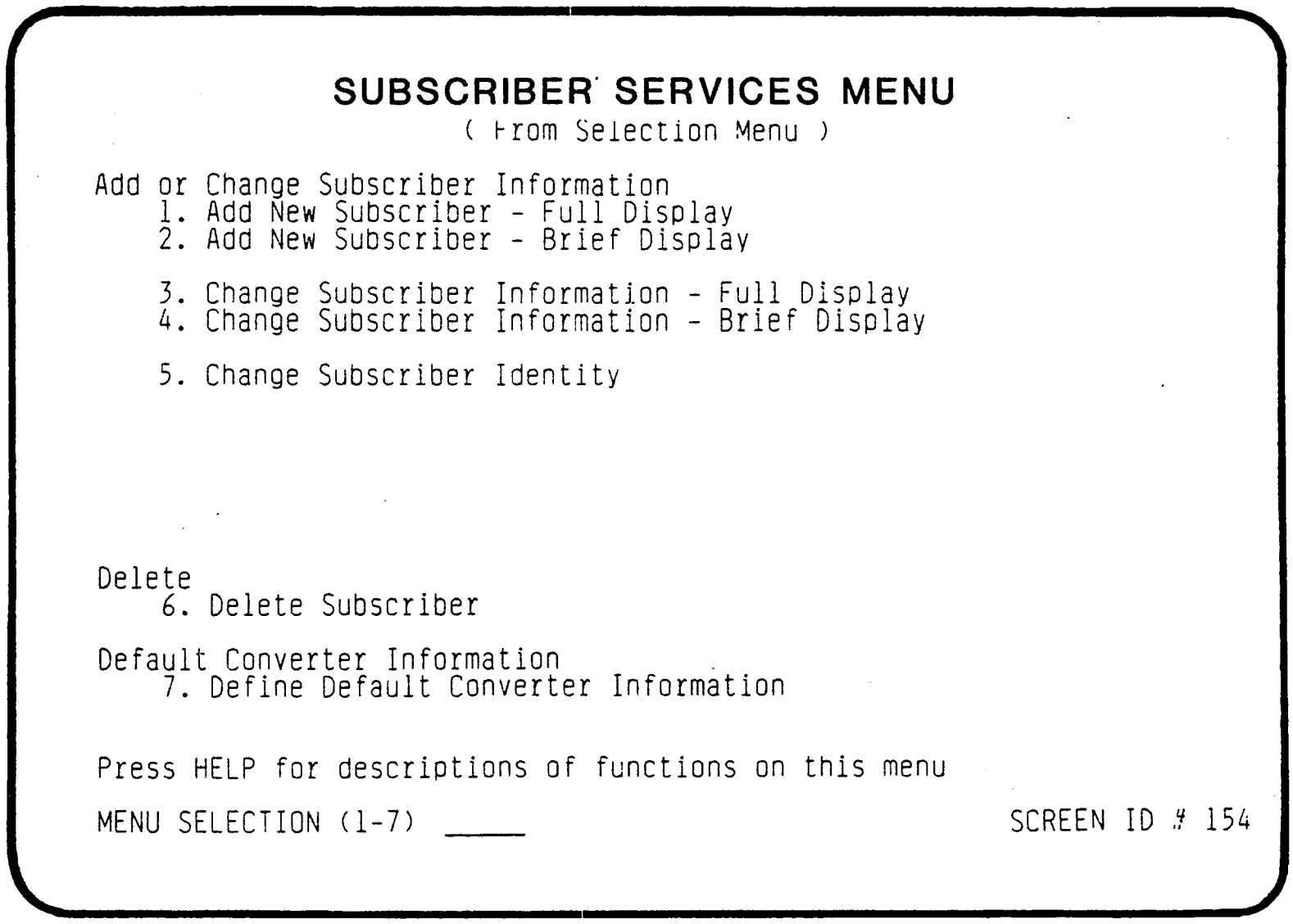
(From Selection Menu)

Press HELP for descriptions of the functions on this menu

MENU SELECTION

SCREEN ID # 153

JP01083


SUBSCRIBER SERVICES MENU
(From Selection Menu)
Add or Change Subscriber Information
1. Add New Subscriber - Full Display
2. Add New Subscriber - Brief Display
3. Change Subscriber Information - Full Display
4. Change Subscriber Information - Brief Display
5. Change Subscriber Identity
Delete
6. Delete Subscriber
Default Converter Information
7. Define Default Converter Information
Press HELP for descriptions of functions on this menu
MENU SELECTION (1-7) _____
SCREEN ID # 154

JP01084

3.154.1 SUBSCRIBER SERVICE MENU

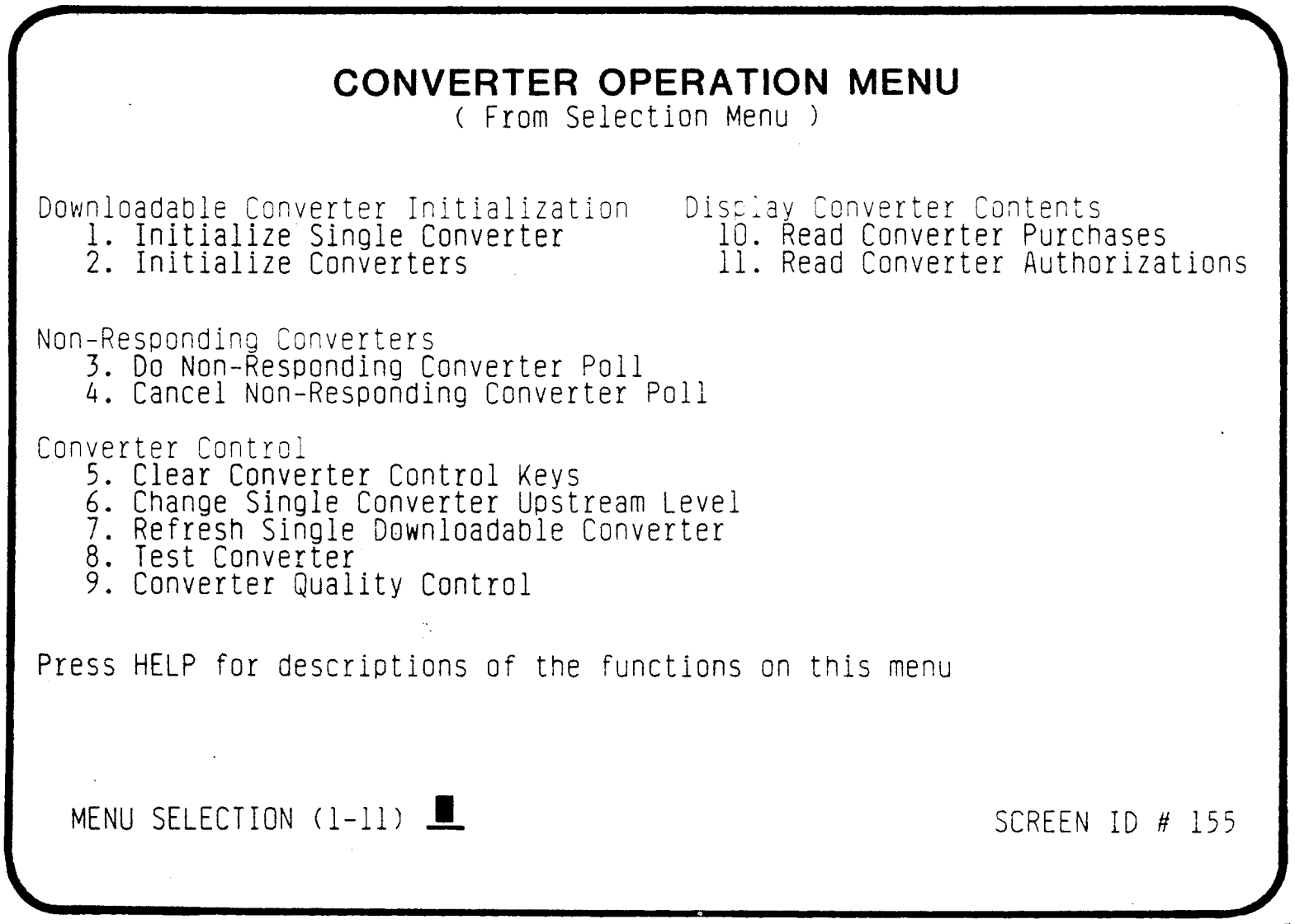
This screen gives access to the functions pertinent to the subscriber.

3.154.2 Procedure

a. From any menu screen enter 154 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the selection field.

b. Select the option wanted. Note the corresponding number.

c. Enter the number ⟨RETURN⟩. The function corresponding to the number selected will appear on the terminal.


CONVERTER OPERATION MENU
(From Selection Menu)
Downloadable Converter Initialization
1. Initialize Single Converter
2. Initialize Converters
Display Converter Contents
10. Read Converter Purchases
11. Read Converter Authorizations
Non-Responding Converters
3. Do Non-Responding Converter Poll
4. Cancel Non-Responding Converter Poll
Converter Control
5. Clear Converter Control Keys
6. Change Single Converter Upstream Level
7. Refresh Single Downloadable Converter
8. Test Converter
9. Converter Quality Control
Press HELP for descriptions of the functions on this menu
MENU SELECTION (1-11)
SCREEN ID # 155

3.155.1 CONVERTER OPERATION MENU

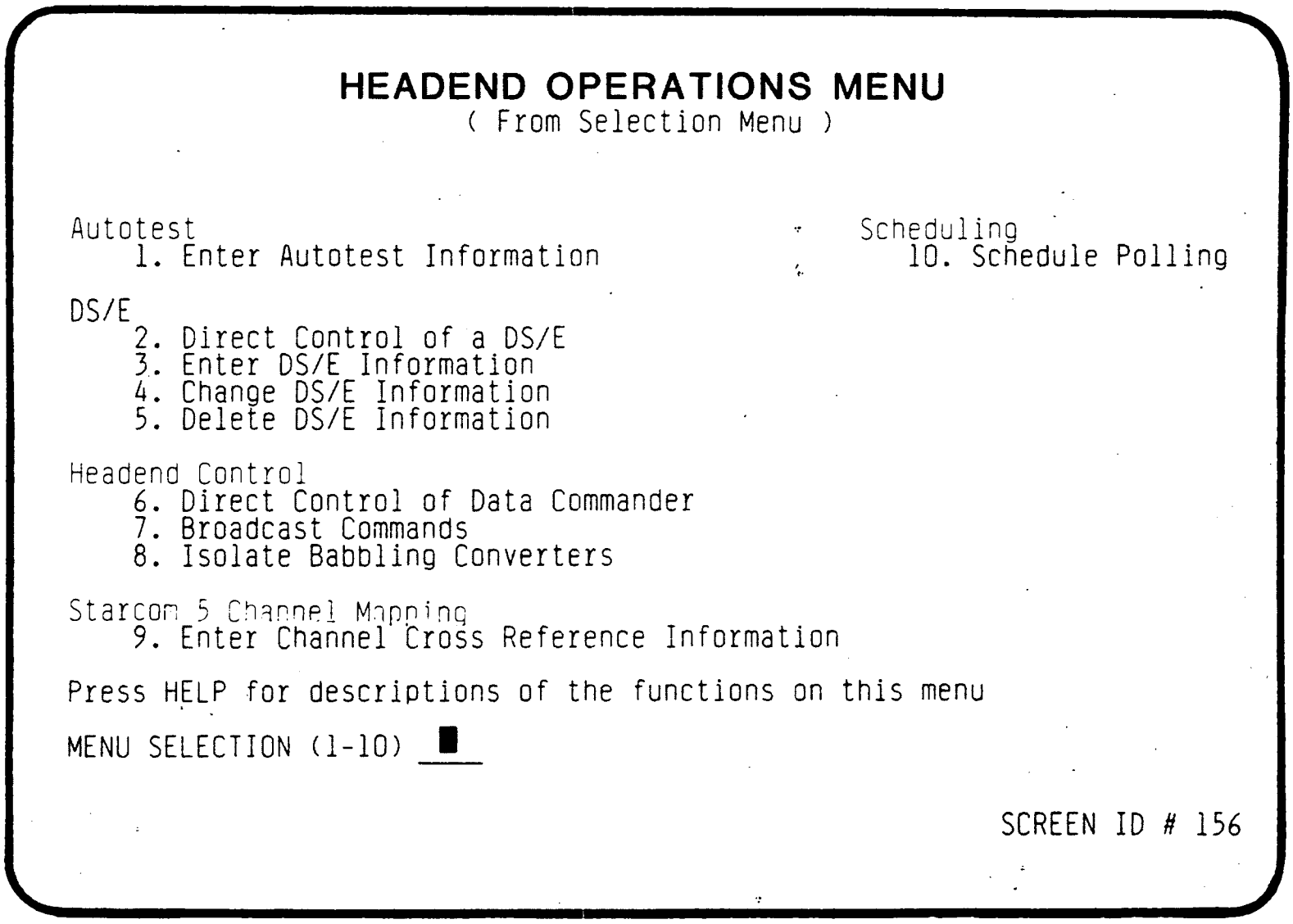
This screen gives the user access to functions pertinent to converter operations.

3.155.2 Procedure

a. From any menu screen enter 155 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the selection field.

b. Select the option wanted. Note the corresponding number.

c. Enter that number ⟨RETURN⟩. The screen corresponding to the number selected will be on the terminal.



JP01086

3.156.1 HEADEND OPERATIONS MENU

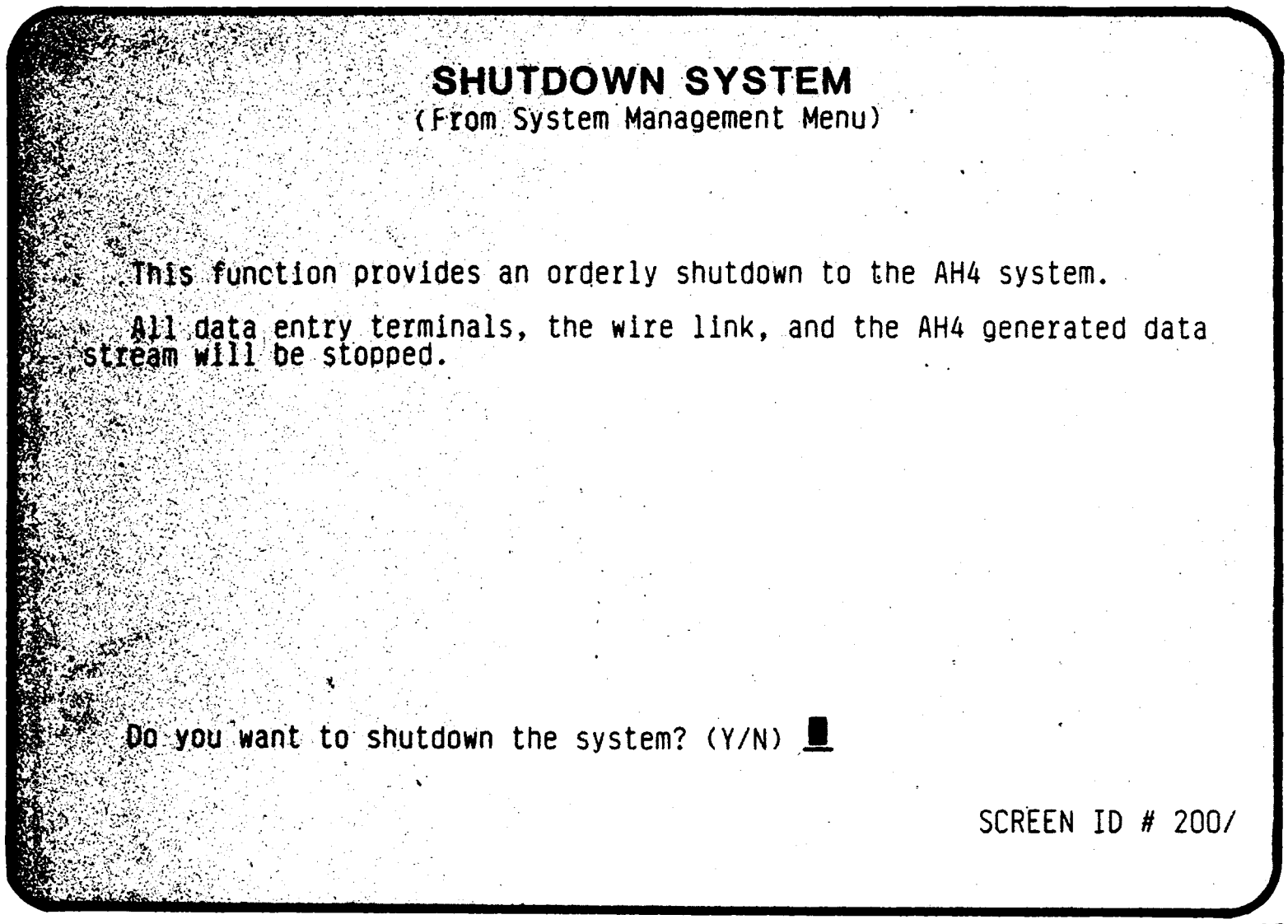
This function gives the user access to the ten functions pertinent to the operations at the cable system's headend.

3.156.2 Procedure

a. From any menu screen, enter 156 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the selection field.

b. Select the option you wish. Note the corresponding number.

c. Enter the number ⟨RETURN⟩. The screen corresponding to the number selected will be on your terminal.


SHUTDOWN SYSTEM
(From System Management Menu)
This function provides an orderly shutdown to the AH4 system.
All data entry terminals, the wire link, and the AH4 generated data stream will be stopped.
Do you want to shutdown the system? (Y/N)
SCREEN ID # 200/

3.200.1 SHUTDOWN SYSTEM

This function enables the user to shut down the cable system in an orderly manner.

3.200.2 Procedure

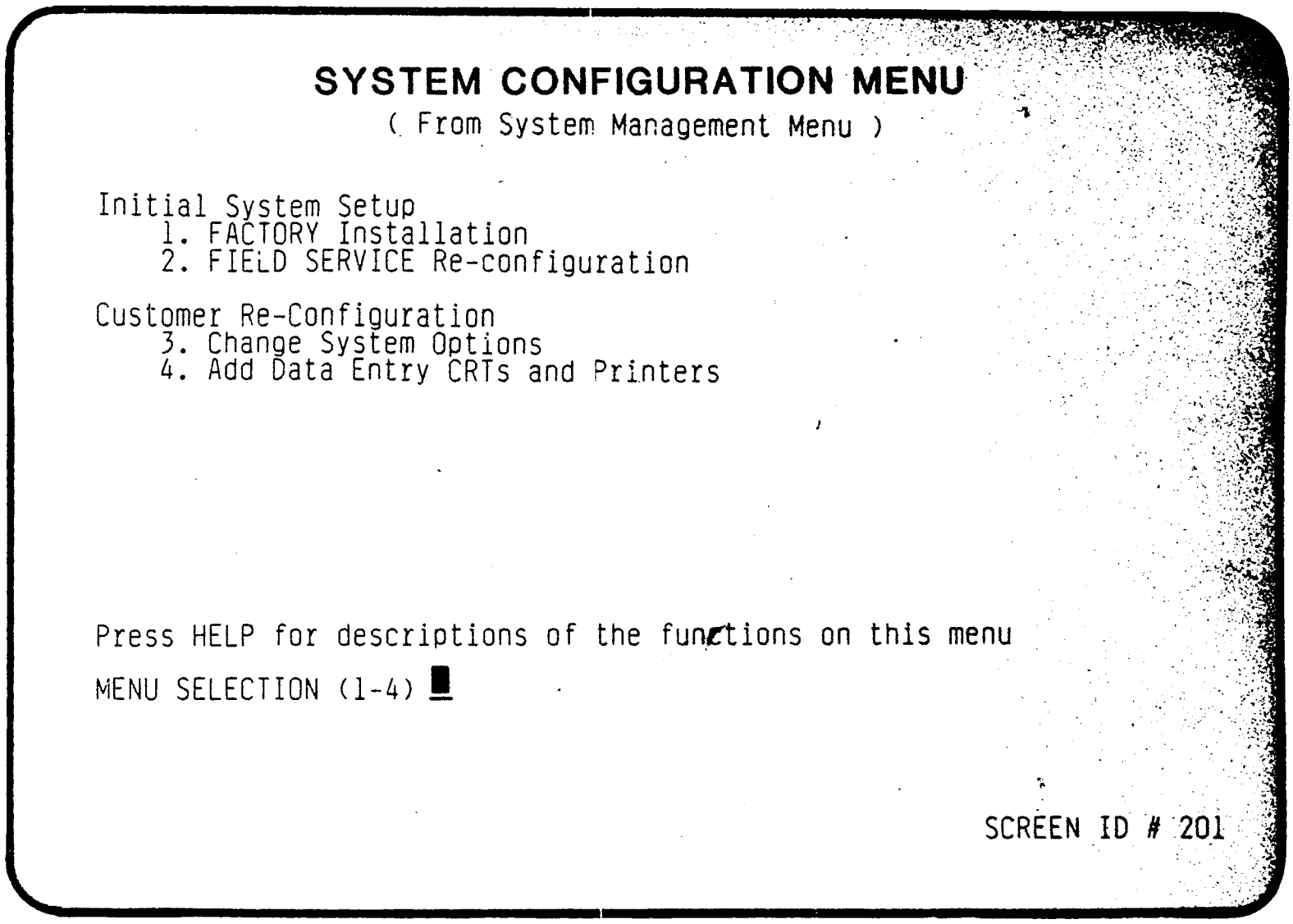
a. From any menu screen, enter 200 ⟨GO TO SCREEN⟩.

b. When the screen comes up, the cursor will be blinking at the Y/N field.

c. Enter Y ⟨RETURN⟩ if you wish to shut down the system. Enter N ⟨RETURN⟩ if you do not wish to shut down the system. The system will shutdown system. There will be no message.

NOTE

In order to restart the system, it will be necessary to reboot. Refer to section 1.3.1 for this procedure.


SYSTEM CONFIGURATION MENU
(From System Management Menu)
Initial System Setup
1. FACTORY Installation
2. FIELD SERVICE Re-configuration
Customer Re-Configuration
3. Change System Options
4. Add Data Entry CRTs and Printers
Press HELP for descriptions of the functions on this menu
MENU SELECTION (1-4)
SCREEN ID # 201

3.201.1 SYSTEM CONFIGURATION MENU

This screen gives the user access to the functions pertinent to the system's configuration.

NOTE

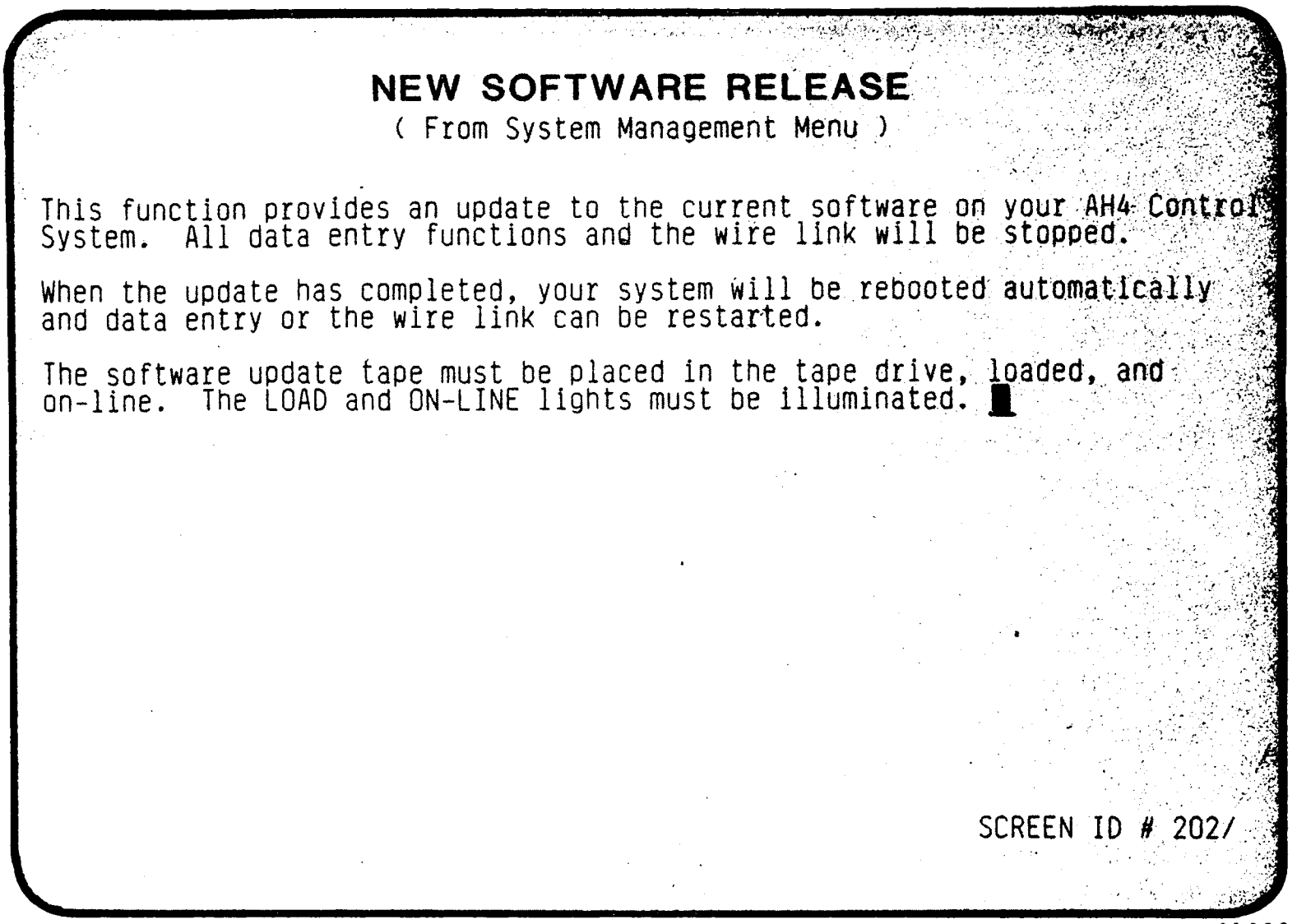
The options in this function are not currently implemented.

3.201.2 Procedure

a. From any menu screen, enter 201 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the selection field.

b. Select the option you wish - note the corresponding number.

c. Enter the number ⟨RETURN⟩. The screen corresponding to the number selected will be displayed on your terminal.


NEW SOFTWARE RELEASE
(From System Management Menu)
This function provides an update to the current software on your AH4 Control System. All data entry functions and the wire link will be stopped.
When the update has completed, your system will be rebooted automatically and data entry or the wire link can be restarted.
The software update tape must be placed in the tape drive, loaded, and on-line. The LOAD and ON-LINE lights must be illuminated.
SCREEN ID # 202/

3.202.1 NEW SOFTWARE RELEASE

This function gives the user the ability to update the current software.

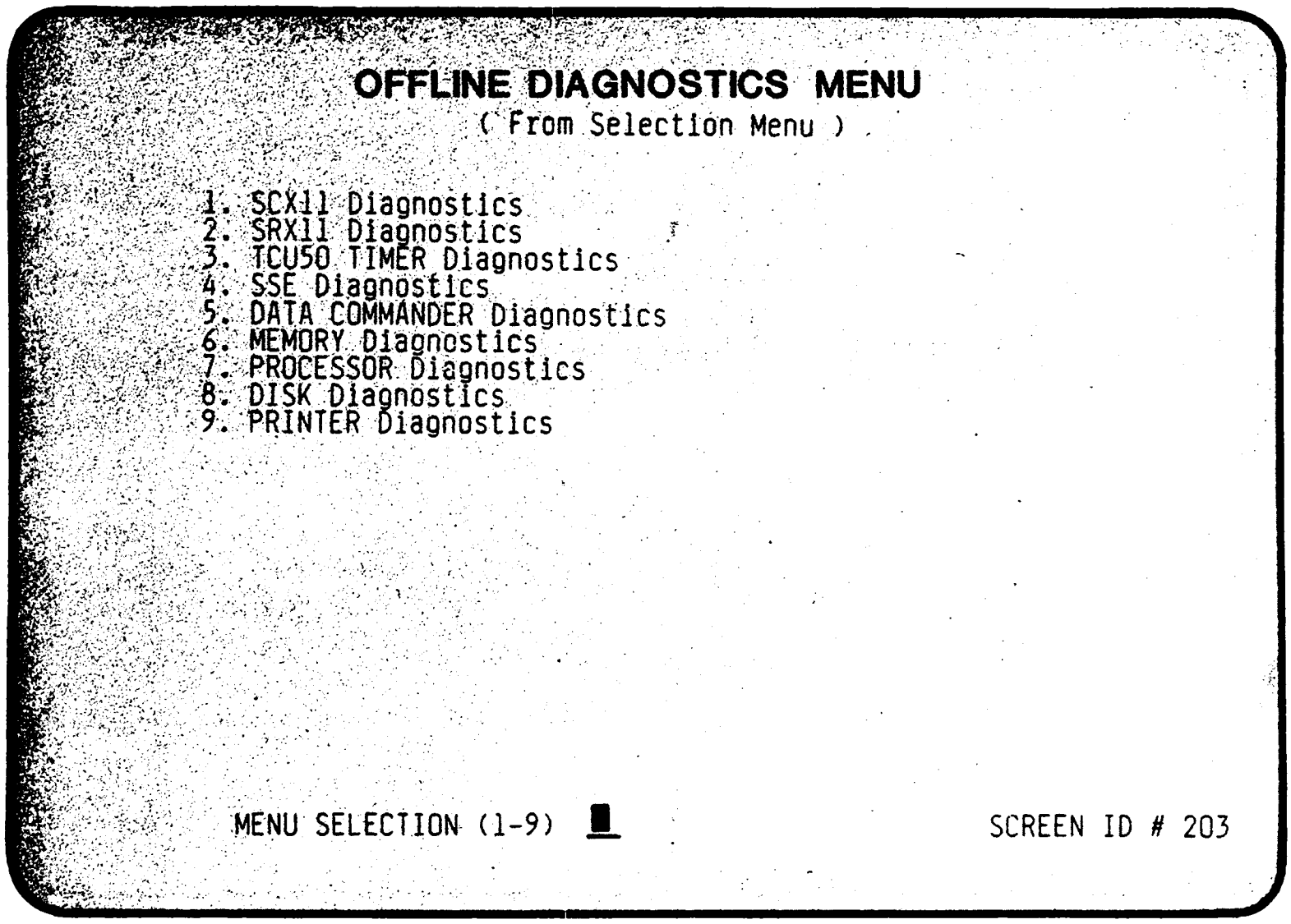
3.202.2 Procedure

a. From any menu screen, enter 202 ⟨GO TO SCREEN⟩. When the system comes up, the cursor will be blinking beneath the text.

b. Press ⟨EXECUTE⟩ key.

NOTE

Implementation of this screen stops all function of the system. Select the time for the update with care.


OFFLINE DIAGNOSTICS MENU
(From Selection Menu)
1. SCX11 Diagnostics
2. SRX11 Diagnostics
3. TCU50 TIMER Diagnostics
4. SSE Diagnostics
5. DATA COMMANDER Diagnostics
6. MEMORY Diagnostics
7. PROCESSOR Diagnostics
8. DISK Diagnostics
9. PRINTER Diagnostics
MENU SELECTION (1-9)
SCREEN ID # 203

JP01091

ADD DATA ENTRY CRTS AND PRINTERS

(From System Configuration Menu)

SCREEN ID # 204/

JP01092

UPDATE PASSWORD SCREEN
(From System Management Menu)

Operator Name JOHN SMYTHE Operator Number 11

Currently updating access rights for: CONVERTER INFO

Press NEXT Key to page to next menu or S[illegible] to save

Enter Y, N, RETURN, or NEXT FIELD

N Print Summary Information
N Print Converter Information
N Print Subscriber Authorizations
N Print Service Number Information
N Print Starcom V Information
Y Print Converter Status

PSS323 SCREEN ID # 205/

3.205.1 UPDATE PASSWORD SCREEN

This screen will enable the cable operator to add a new password entry, update an existing password entry or delete an existing password entry.

3.205.2

a. From any menu screen enter "205 ⟨GO TO SCREEN⟩." The cursor will be flashing at the function field.

b. Select the option you want. Note the corresponding number. Enter the number ⟨RETURN⟩. If you selected option 1, "add existing password option," proceed to c.1. If you selected option 2, "Delete existing password entry," proceed to c.2. If you selected option 3, "Update existing password entry," proceed to c.3.

c. 1. If you pressed Function 1, the cursor will blink at the name field.
   2. Enter the operator's name ⟨RETURN⟩. The cursor will move to the number field and the system will automatically fill in the number.
   3. Press ⟨RETURN⟩. The cursor will move to the Password field. Enter the password of your operator's choosing ⟨RETURN⟩. The cursor will move to the menu listing field. All fields will have an "N" beside them.
   4. Enter "Y" for those entries you wish to authorize. Simply press the "next field " key to pass over those menus for which you do not wish authorization. Continue this until you come to the end of the screen.
   5. Press ⟨EXECUTE⟩. On your terminal will now appear the sub menu for each menu you authorized the operator. Enter "Y" to authorize the sub menus. Press the ⟨NEXT FIELD⟩ key for those menus you do not wish authorized. When you are sure you have all the entries in this screen correct, press ⟨EXECUTE⟩. The next set of sub menus will appear on your screen. Continue this procedure for each sub menu. When the authorization is complete, the original password screen will appear on your terminal.

d. If you have selected Option 2, enter the name of your operator ⟨RETURN⟩.

UPDATE PASSWORD SCREEN

(From System Management Menu)

Operator Name JOHN SMYTHE Operator Number 11

Currently updating access rights for: REPORT MENU

Press NEXT Key to page to next menu or EXEC Key to save values

Enter Y, N, RETURN or NEXT FIELD

N	Activity Logon	N	Control of Reports
N	Pay Service		
Y	Converter Information		
N	System Information		
N	Prom Programming List		
N	Data Collection		
N	Opinion Polling		
N	Non-Responding Converter		

PSS321 SCREEN ID # 205/

JP01096

UPDATE PASSWORD SCREEN

(From System Management Menu)

Operator Name JOHN SMYTHE Operator Number 11

Currently updating access rights for: SUBSCRIBER SERVICES MENU

Press NEXT Key to page to next menu or EXEC Key to save values

Enter Y, N, RETURN or NEXT FIELD

Y	Add a New Subscriber - Full Display
Y	Add New Subscriber - Brief Display
Y	Change Subscriber Information - Full Display
Y	Change Subscriber Information - Brief Display
N	Change Subscriber Identity
N	Delete Subscriber
N	Define Default Converter Information

PSS154 SCREEN ID # 205/

JP01095

UPDATE PASSWORD SCREEN

(From System Management Menu)

Function
1. Add New Password Entry
2. Update Existing Password Entry
3. Delete Existing Password Entry

Function 1

Operator Name JOHNSON Operator Number 5
Password C3RO9 This Entry? (Y/N)
Press NEXT Key to page to next menu or EXEC Key to save values

Enter Y, N, RETURN or NEXT FIELD

N	Wire Link Menu	Y	Headend Operation Menu
N	Subscriber Service Menu	N	PPV Menu
Y	Converter Operation Menu	N	1-Way System Menu
N	Data Collection Menu	Y	System Management Menu
Y	Opinion Polling Menu		
N	Report Menu		

SCREEN ID # 205/

JP01094

UPDATE PASSWORD SCREEN

(From System Management Menu)

Function
1. Add New Password Entry
2. Update Existing Password Entry
3. Delete Existing Password Entry

Function 1

Operator Name JOHN SMYTHE Operator Number 11
Password SMYTHIE This Entry? (Y/N)
Press NEXT Key to page to next menu or EXEC Key to save values

Enter Y, N, RETURN or NEXT FIELD

N	Wire Link Menu	N	Headend Operation Menu
Y	Subscriber Service Menu	N	PPV Menu
N	Converter Operation Menu	N	1-Way System Menu
N	Data Collection Menu	N	System Management Menu
N	Opinion Polling Menu		
Y	Report Menu		

SCREEN ID # 205/

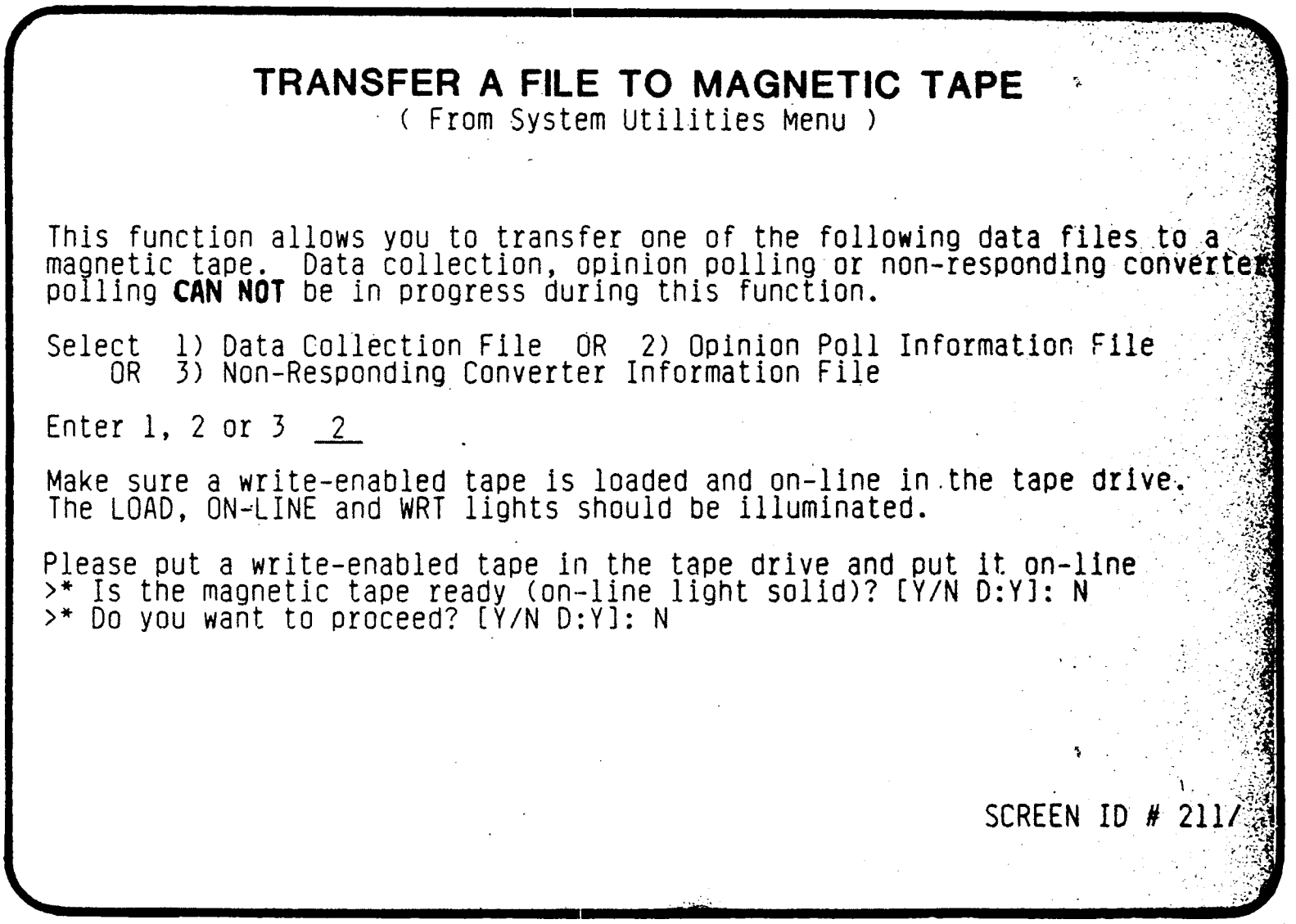
JP01093

START/STOP CABLE INTERFACE

(From System Management Menu)

SCREEN ID # 206/

JP01098


TRANSFER A FILE TO MAGNETIC TAPE
(From System Utilities Menu)
This function allows you to transfer one of the following data files to a magnetic tape. Data collection, opinion polling or non-responding converter polling CAN NOT be in progress during this function.
Select 1) Data Collection File OR 2) Opinion Poll Information File
OR 3) Non-Responding Converter Information File
Enter 1, 2 or 3 2
Make sure a write-enabled tape is loaded and on-line in the tape drive. The LOAD, ON-LINE and WRT lights should be illuminated.
Please put a write-enabled tape in the tape drive and put it on-line
>* Is the magnetic tape ready (on-line light solid)? [Y/N D:Y]: N
>* Do you want to proceed? [Y/N D:Y]: N
SCREEN ID # 211/

3.211.1 TRANSFER FILE TO MAGNETIC TAPE

This function allows the user to transfer data files to magnetic tape.

WARNING

DO NOT implement this function if a data collection, opinion polling, or nonresponding are in progress.

3.211.2 Procedure

a. From any menu screen enter 211 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the Enter field.

b. Select the field you wish to be transferred. Note the corresponding number. Enter that number ⟨RETURN⟩.

   Message: will flash. When the job is completed, the screen will clear itself.

c. To exit from this screen, press ⟨PREVIOUS SCREEN⟩ key.

UPDATE PAY SERVICES

(From Selection Menu)

Services:
1. Add a New Service
2. Change a Service

Packages:
3. Add a New Package
4. Change a Package

5. Delete a Service or Package

Channel Schedules:
6. Build a New Channel Schedule
7. Change a Channel Schedule
8. Copy a Channel Schedule
9. Delete a Channel Schedule

Update Pay Services:

10. Implement Updates

Press HELP for a description of Update Pay Services functions

MENU SELECTION (1-10) ▮ SCREEN ID # 213/

JP01100

CLEAR PAY SERVICES HISTORY FILE

(From System Utilities Menu)

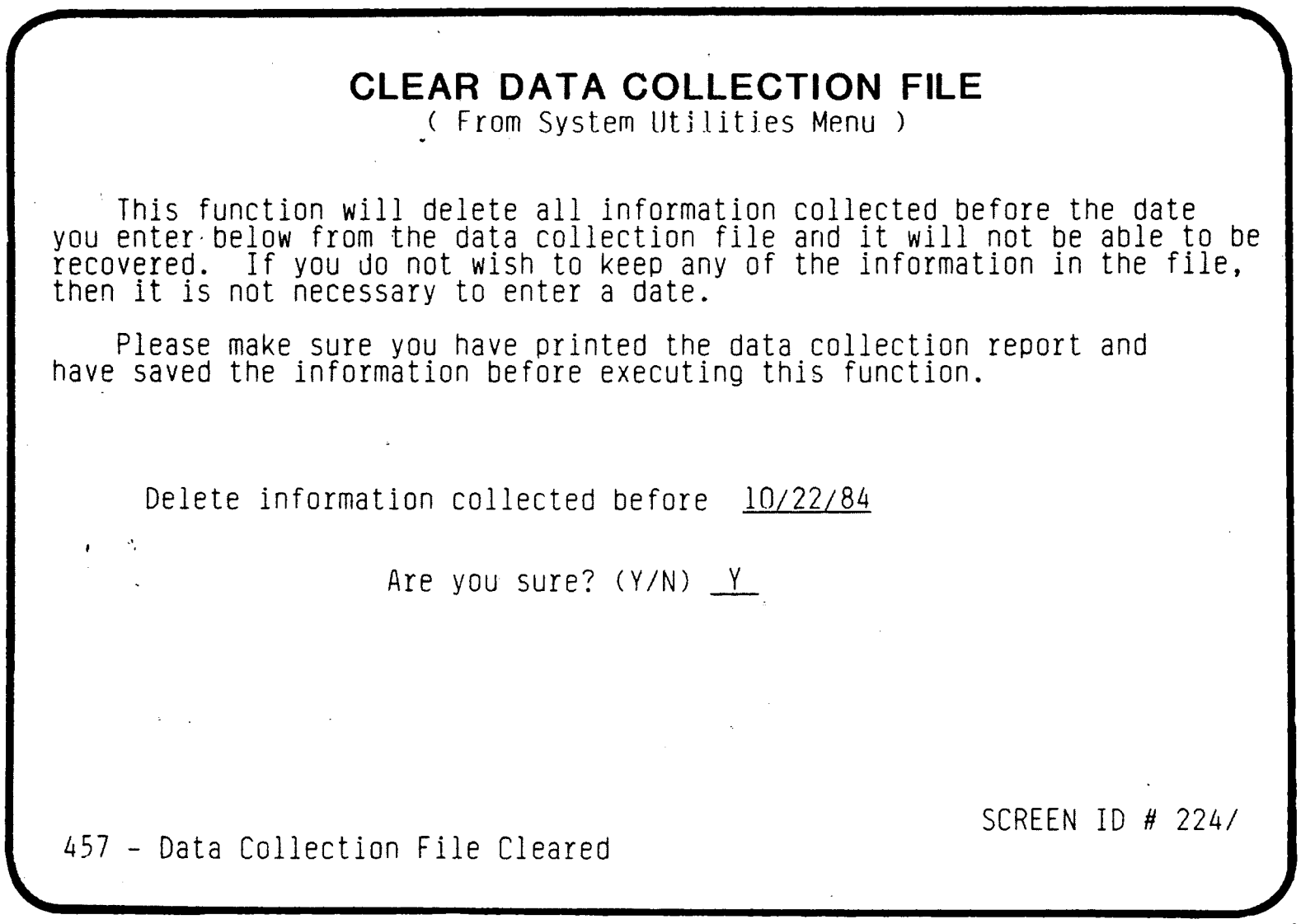
This function will delete all information from the pay services history file and it will not be able to be recovered.

Please make sure you have printed the pay services history report and have saved the information before executing this function.

Are you sure? (Y/N) Y

SCREEN ID # 223/

JP01102


CLEAR DATA COLLECTION FILE
(From System Utilities Menu)
This function will delete all information collected before the date you enter below from the data collection file and it will not be able to be recovered. If you do not wish to keep any of the information in the file, then it is not necessary to enter a date.
Please make sure you have printed the data collection report and have saved the information before executing this function.
Delete information collected before 10/22/84
Are you sure? (Y/N) Y
SCREEN ID # 224/
457 - Data Collection File Cleared

3.224.1 Clear Data Collection File

This function will delete all information collected before the date entered in the field. This information cannot be retrieved.

3.224.2 Procedure

a. From any menu screen enter 224 ⟨GO TO SCREEN⟩. When screen comes up the cursor will be blinking at the date field.

b. Enter the date at which you wish the deletion to stop ⟨RETURN⟩. The cursor will then move to the "Are you sure?" field.

1. Enter Y ⟨RETURN⟩ if you are sure; enter N ⟨RETURN⟩ if you are not sure.
   (a) If you entered Y, the system will display message 423 - Working, followed by 457 - Data Collection File Cleared. The system will then return to the System Utilities Menu (251 screen

   (b) If you entered N, the screen will clear itself and return to the System Utilities Menu screen (251).

CLEAR ACTIVITY LOG FILE

(From System Utilities Menu)

This function will delete all information put into the system activity log before the date you enter below, and it will not be able be recovered. If you do not wish to keep any of the information in the file, then it is not necessary to enter a date.

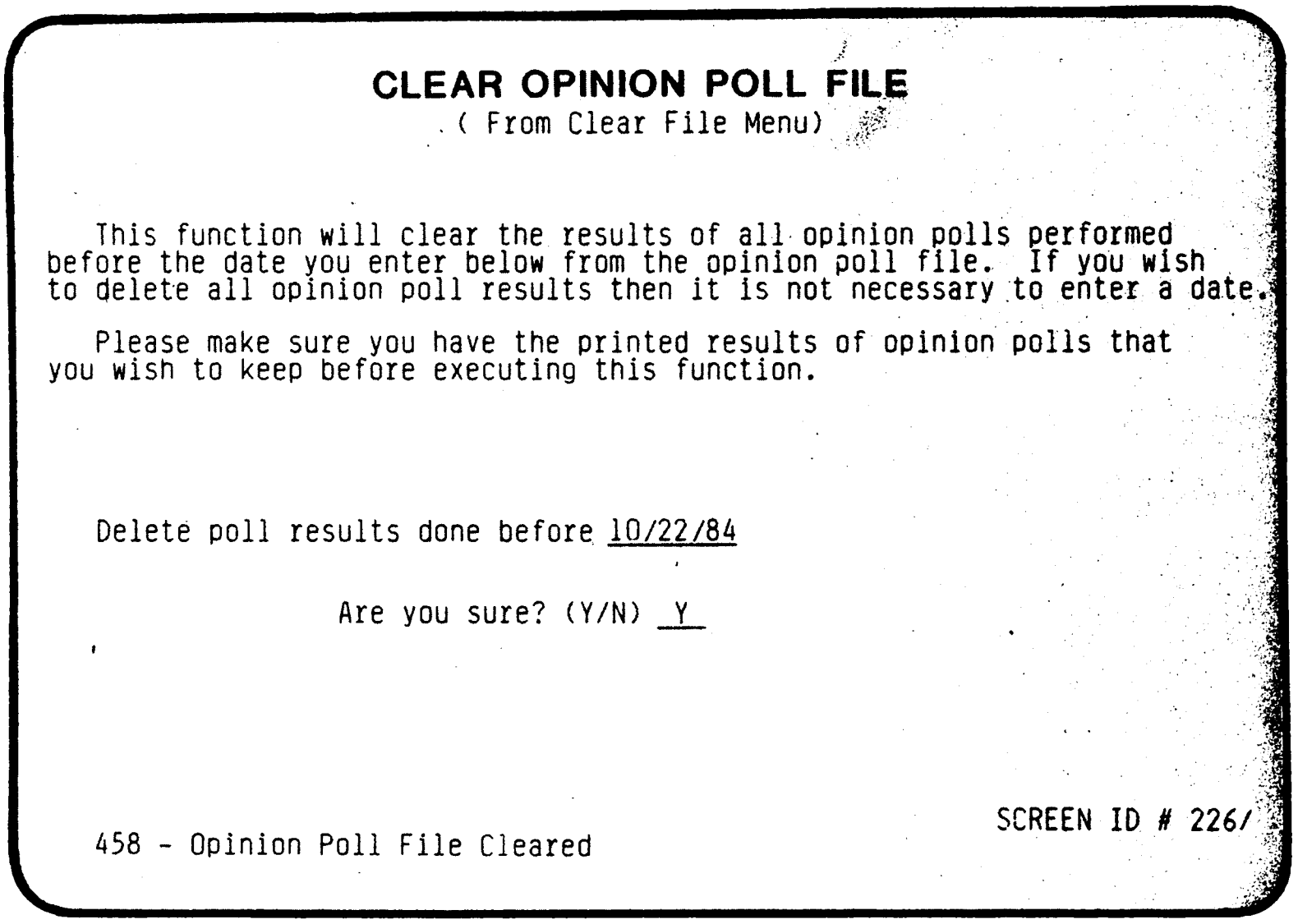
Please make sure you have printed activity log reports for the information you want to save before executing this function.

Delete information gathered before / /

Are you sure? (Y/N)

SCREEN ID # 225/

JP01105


CLEAR OPINION POLL FILE
(From Clear File Menu)
This function will clear the results of all opinion polls performed before the date you enter below from the opinion poll file. If you wish to delete all opinion poll results then it is not necessary to enter a date.
Please make sure you have the printed results of opinion polls that you wish to keep before executing this function.
Delete poll results done before 10/22/84
Are you sure? (Y/N) Y
458 - Opinion Poll File Cleared
SCREEN ID # 226/

3.226.1 CLEAR OPINION POLL FILE

This function enables the user to clear the results of all opinion polls performed prior to the date specified.

3.226.2 Procedure

a. From any menu screen, enter ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the date field.

b. Enter the date up to which the poll is to be deleted. The cursor will then move to the "Are You Sure?" field.

1. If not sure, press N ⟨RETURN⟩. The system will then return you to the System Utilities Menu.
2. If sure, press Y ⟨RETURN⟩. The system will then clear the files and send messages 423 - Working, followed by 458 - Opinion Poll File Cleared. The system will then return you to the System Utilities Menu.

FACTORY INSTALLATION

(From System Configuration Menu)

Enter password:

Update System Configuration (Y/N)?

SCREEN ID # 228/

JP01109

CUSTOMER CONFIGURATION

(From System Configuration Menu)

Update System Configuration (Y/N)?

SCREEN ID # 229/

JP01110

FIELD SERVICE CONFIGURATION

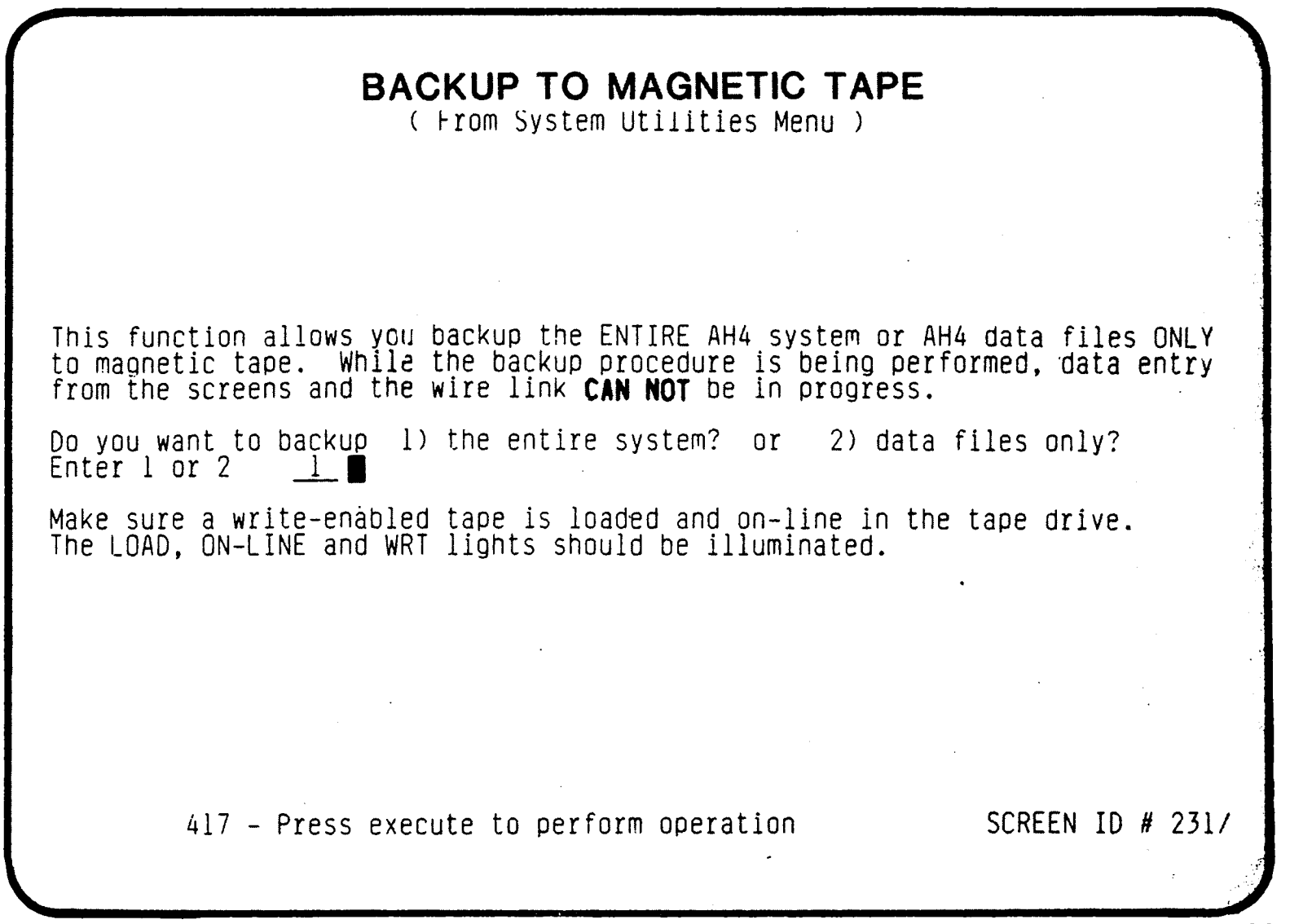
(From System Configuration Menu)

Enter password:

Update System Configuration (Y/N) ?

SCREEN ID # 230/

JP01111


BACKUP TO MAGNETIC TAPE
(From System Utilities Menu)
This function allows you backup the ENTIRE AH4 system or AH4 data files ONLY to magnetic tape. While the backup procedure is being performed, data entry from the screens and the wire link CAN NOT be in progress.
Do you want to backup 1) the entire system? or 2) data files only?
Enter 1 or 2 1
Make sure a write-enabled tape is loaded and on-line in the tape drive.
The LOAD, ON-LINE and WRT lights should be illuminated.
417 - Press execute to perform operation
SCREEN ID # 231/

3.231.1 BACKUP TO MAGNETIC TAPE

This function permits the user to backup either the entire AH-4 system or the AH-4 data files.

NOTE

When performing this function, data entry cannot be in progress. A write-enabled tape should be loaded and on-line in the tape drive.

3.231.2 Procedure

a. From any menu screen, enter 231 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the enter field.

b. Select the option desired and note the corresponding number.

c. Enter the number ⟨RETURN⟩. The system will send a message .

d. When finished the backup, the screen will clear itself.

e. To exit from this screen, press ⟨PREVIOUS SCREEN⟩ key.

BACKUP TO MAGNETIC TAPE

(From System Utilities Menu)

This function allows you backup the ENTIRE AH4 system or AH4 data files ONLY to magnetic tape. While the backup procedure is being performed, data entry from the screens and the wire link **CAN NOT** be in progress.

Do you want to backup 1) the entire system? or 2) data files only?
Enter 1 or 2 1

Make sure a write-enabled tape is loaded and on-line in the tape drive.
The LOAD, ON-LINE and WRT lights should be illuminated.

NOTE: 3 different tapes may be required for a complete backup!

The information put on tape can be verified for correctness by reading back the tape after it has been written. This causes the backup to take up to 3 times as long as a non-verified backup.
>* Do you want to verify the correctness of the backup? [Y/N]: N

Please put a write-enabled tape in the tape drive and put it on-line
>* Is the magnetic tape ready (on-line light solid)? [Y/N]: Y

SCREEN ID # 231/

JP01113

BACKUP TO MAGNETIC TAPE

(From System Utilities Menu)

This function allows you backup the ENTIRE AH4 system or AH4 data files ONLY to magnetic tape. While the backup procedure is being performed, data entry from the screens and the wire link **CAN NOT** be in progress.

Do you want to backup 1) the entire system? or 2) data files only?
Enter 1 or 2 1

Make sure a write-enabled tape is loaded and on-line in the tape drive.
The LOAD, ON-LINE and WRT lights should be illuminated.

the backup to take up to 3 times as long as a non-verified backup.
>* Do you want to verify the correctness of the backup? [Y/N]: N

...AT. -- Invalid answer or terminator
>* Do you want to verify the correctness of the backup? [Y/N]: N

Please put a write-enabled tape in the tape drive and put it on-line
>* Is the magnetic tape ready (on-line light solid)? [Y/N]: N
>* Do you want to proceed with the backup? [Y/N]: N

SCREEN ID # 231/

JP01114

RESTORE DATA FILES

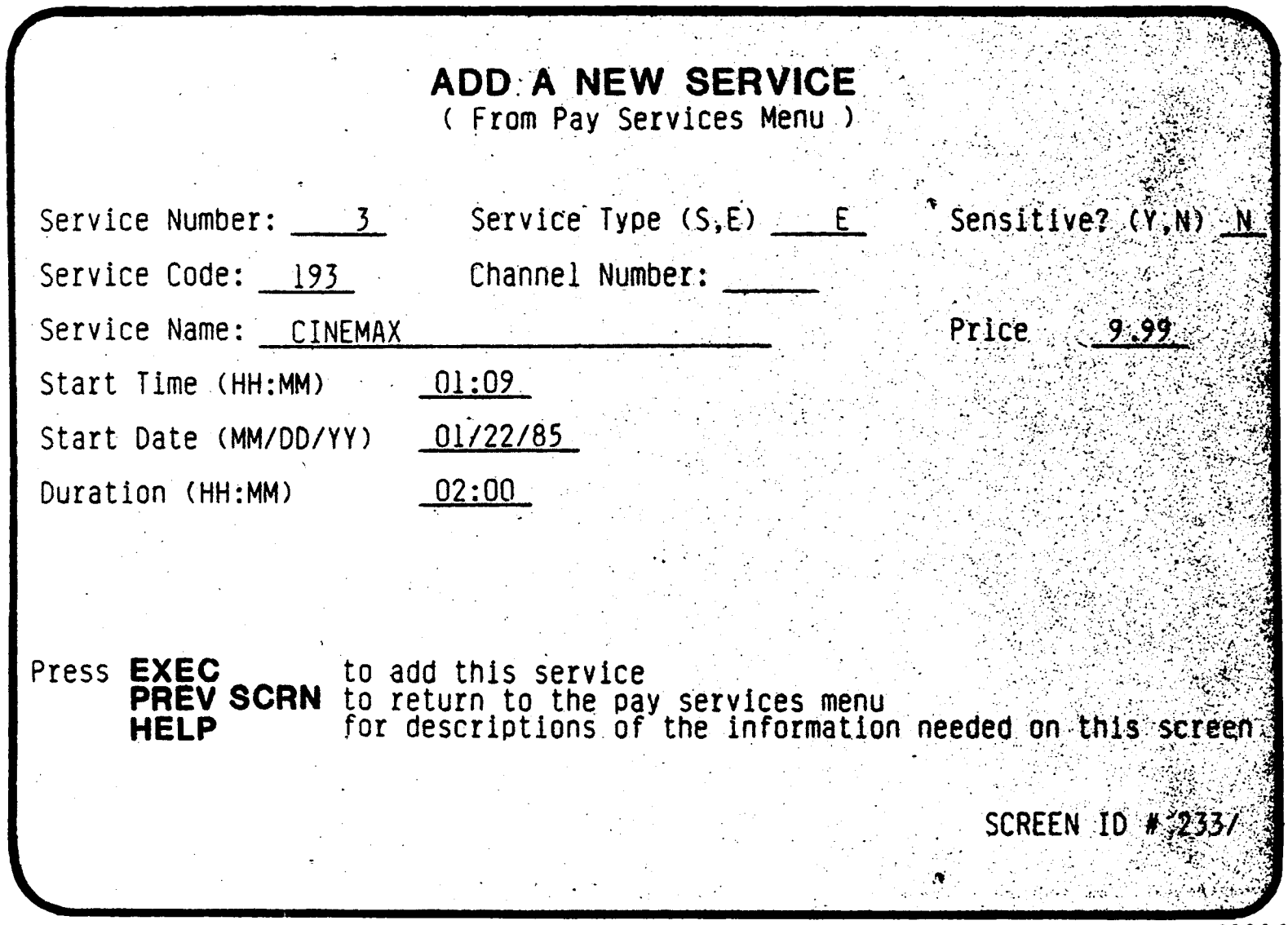
(From System Utilities Menu)

This function allows you restore data files backed up with the data file backup procedure. ALL AH4 Controller functions WILL BE STOPPED before the restore can be done. The system will be restarted when the restore has completed.

Verify that the data backup tape is loaded and on-line in the tape drive. The READY and ON-LINE lights should be illuminated.

SCREEN ID # 232/

JP01115


ADD A NEW SERVICE
(From Pay Services Menu)
Service Number: 3
Service Type (S,E) E
Sensitive? (Y,N) N
Service Code: 193
Channel Number:
Service Name: CINEMAX
Price 9.99
Start Time (HH:MM) 01:09
Start Date (MM/DD/YY) 01/22/85
Duration (HH:MM) 02:00
Press EXEC to add this service
PREV SCRN to return to the pay services menu
HELP for descriptions of the information needed on this screen
SCREEN ID # 2331

JP01116

3.233.1 ADD A NEW SERVICE

This function enables the operator to add a new service to to the system.

3.233.2 Procedure

a. From any menu screen enter 213 ⟨GO TO SCREEN⟩. When the screen comes up the cursor will be blinking at the Menu Selection field.

b. Enter 1 ⟨RETURN⟩. When the function comes up, the cursor will be blinking at the Service Type field.

c. Enter S ⟨RETURN⟩ if the new service is a Service or "E" ⟨RETURN⟩ if it is an event. The cursor will blink at the "Sensitive" field

d. Enter "Y" ⟨RETURN⟩ if it is sensitive and "N" ⟨RETURN⟩ if it is not sensitive. The cursor will then blink at the Service Code field

e. Enter the tag this service will use ⟨RETURN⟩. The cursor will move to the character number field.

f. Enter the channel on which this service will be used. The cursor will then move to the Start Time field.

g. Enter the starting time ⟨RETURN⟩.

NOTE

AM or PM are not designated in this field. Use military time when entering this number.

E.g.: 5 PM is 17:00
8 PM is 20:00

The cursor will move to the day field.

h. Enter the month, day, and year ⟨RETURN⟩. January 1, 1984 is written 01/01/84.

i. Press ⟨EXECUTE⟩ key. The system will then send message 423 - Working.

j. Enter ⟨PREVIOUS SCREEN⟩ key. You are now in the Pay Services screen.

k. Enter 10 ⟨RETURN⟩. The Update Pay Services function will come up on the screen. The cursor will be blinking at the "Are You Sure?" field.

3.233.2 (continued)

l. Enter "Y" if you are sure; enter "N" if you are not sure.

m. Press ⟨EXECUTE⟩ key. The system will then send a message "This may take a while." The system will return you to the Pay Service Screen ( ). When the update is complete, the system will send a message

```
                DELETE A SERVICE OR PACKAGE
                    ( From Pay Services Menu )

This function causes the controller to read and update the information kept
for every connected converter or the system in order to delete the service
authorization.

All deletes and changes are actually done when you execute the implement pay
service updates screen. This is a VERY LENGTHY PROCEDURE, and does not allow
the operator to make any changes to the system while it is implementing the
update. It should only be done at a time when data entry and the wire link
operation is not necessary.

Service number: _

                    Are you sure? (Y/N)_        SCREEN ID # 234
```

JP01117

3.234.1 DELETE A SERVICE

This function causes the system to read and update the information kept for every connected converter on the system in order to delete the service or package authorization.

NOTE

This function will take a long time to be implemented.

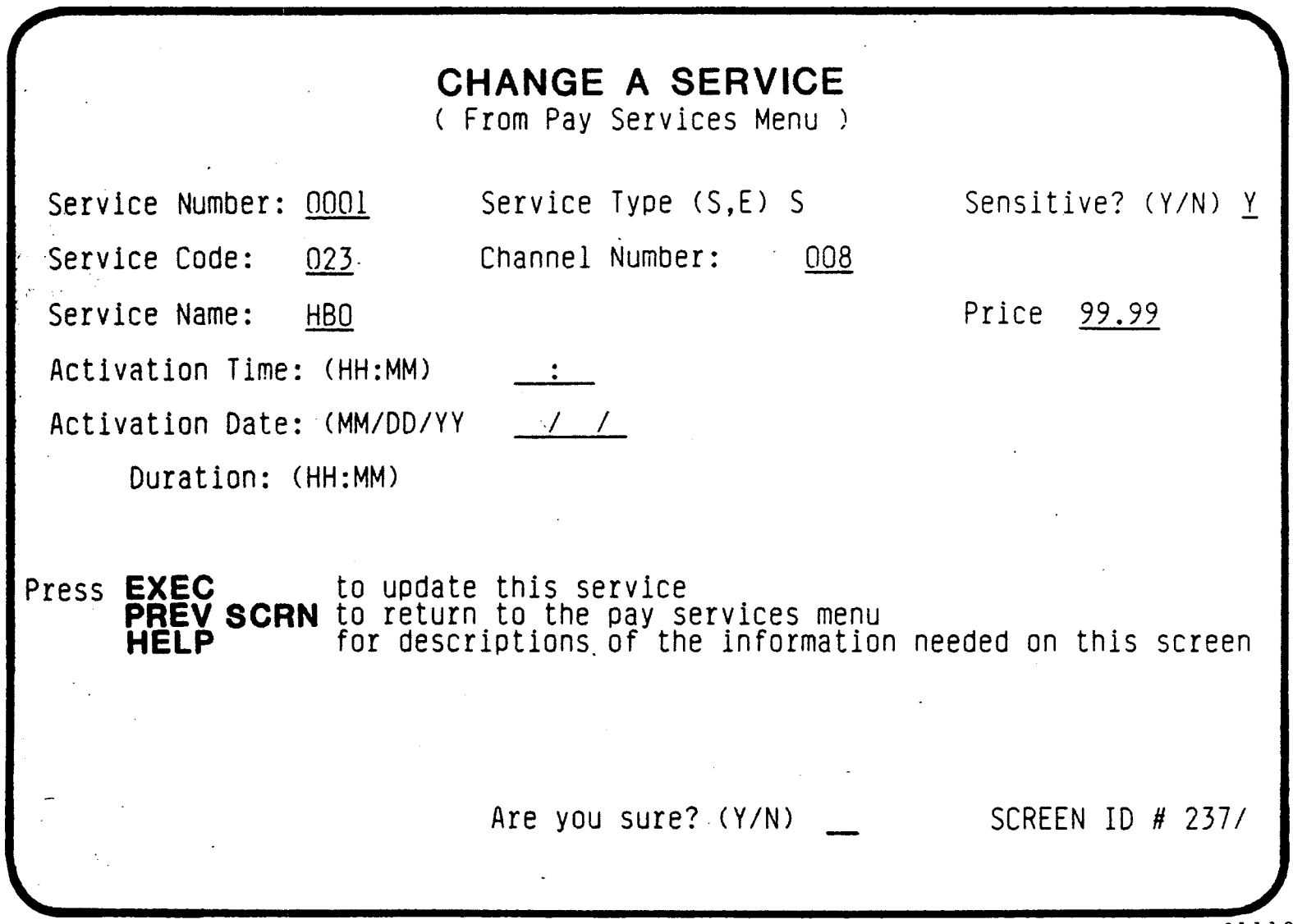
3.234.2 Procedure

a. From any menu screen enter 213 ⟨GO TO SCREEN⟩. The pay services menu screen will appear on your terminal. The cursor will be blinking at the menu selection field.

b. Enter 5 ⟨RETURN⟩. The Delete ⟨Package or Service⟩ will appear on your terminal. The cursor will be blinking at the service number field. Enter the number of the service you wish to delete ⟨RETURN⟩. The cursor will then move to the "Are you sure?" field.

c. If you are sure, enter Y ⟨EXECUTE⟩.
If you are not sure, enter N ⟨EXECUTE⟩.
If "Y" was entered, the system will send a message.

If "N" was entered, the system will clear itself and you will be returned to the Pay Services Menu screen.


CHANGE A SERVICE
(From Pay Services Menu)

Service Number: 0001 Service Type (S,E) S Sensitive? (Y/N) Y

Service Code: 023 Channel Number: 008

Service Name: HBO Price 99.99

Activation Time: (HH:MM) __:__

Activation Date: (MM/DD/YY __/__/__

Duration: (HH:MM)

Press EXEC to update this service
PREV SCRN to return to the pay services menu
HELP for descriptions of the information needed on this screen

Are you sure? (Y/N) __ SCREEN ID # 237/

3.237.1 CHANGE A SERVICE

This function enables the user to change a pay service.

3.237.2 Procedure

a. From any menu screen, enter ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the service number.

b. Enter that number ⟨RETURN⟩. The rest of the display portion will fill in. The cursor will still be at the service number field.

c. Using the ⟨NEXT FIELD⟩ or ⟨PREVIOUS FIELD⟩ keys, as required, move to the field whose information must be changed.

d. Make the changes, pressing the ⟨RETURN⟩ key after each update.

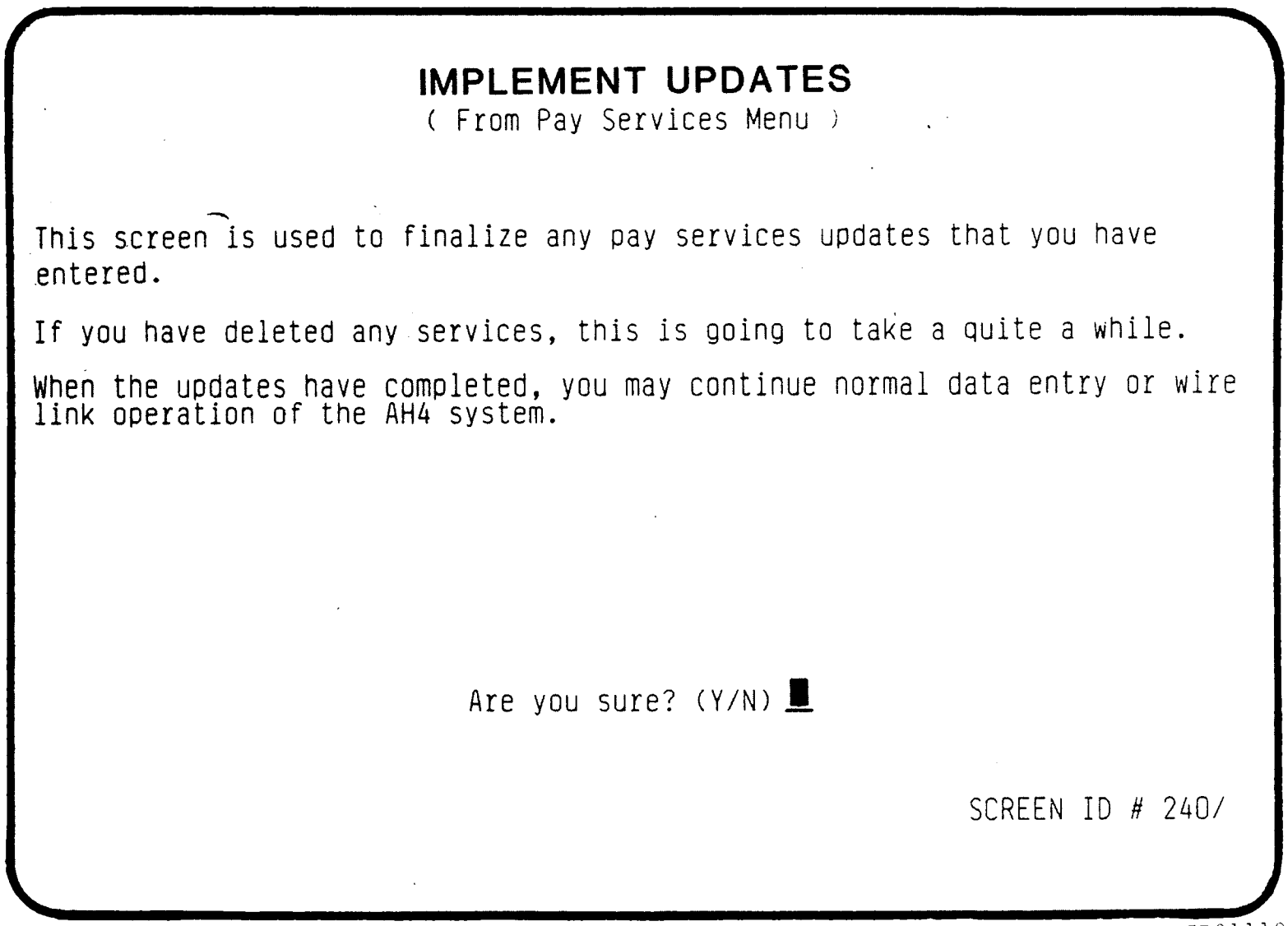
e. When completely finished, press the ⟨EXECUTE⟩ key. The cursor will then move to the "Are you sure?" field.

f. If sure, enter Y ⟨RETURN⟩. The system will then send a message. When finished, the system will return to the Pay Services Menu (240). If "N" was pressed, the screen will clear itself.

g. When the Pay Services Menu comes up, enter 10 ⟨RETURN⟩. The Implement Pay Services screen will come up and the cursor will be blinking at the "Are you sure?" field.

h. Enter Y ⟨EXECUTE⟩. The system will then implement the changes. This may take some time. When finished, the system returns to the Pay Services Menu (240).

i. To exit, press ⟨PREVIOUS SCREEN⟩ key.


IMPLEMENT UPDATES
(From Pay Services Menu)
This screen is used to finalize any pay services updates that you have entered.
If you have deleted any services, this is going to take a quite a while.
When the updates have completed, you may continue normal data entry or wire link operation of the AH4 system.
Are you sure? (Y/N)
SCREEN ID # 240/

JP01119

3.240.1 IMPLEMENT UPDATE

This screen implements changes entered through pay service screen.

3.240.2 Procedure

a. This screen can be accessed only through the Pay Services Menu screen. When it comes up, the cursor will be blinking at the "Are you sure?" field.

b. If sure, enter Y ⟨RETURN⟩. The system will then send a message.

   When the system completes this update, it will return the user to the Pay Services Menu.

c. To exit from this screen, press ⟨PREVIOUS SCREEN⟩ key.

ADD A NEW PACKAGE
(From Pay Services Menu)

Package Number: 7

Package Name: EXTENDED BASIC Price 11.95

Service Number	Type (S,E)	Sensitive (Y,N)	Service Code	Description	Price
Y 1	[S]	Y	023	HBO SVCCODE 23	07.50
Y 2	[S]	N	009	BRAVO SERVICE CODE 9	[illegible]
3	[E]	Y	200	DAVIS CUP SEMI FINALS	04.50
4	[S]	N	012	DISNEY CHANNEL SVCCODE [illegible]	[illegible]
Y 5	[S]	N	014	SHOWTIME SVCCODE 14	09.95
6	[S]	Y	032	HTN SVC CODE 32	[illegible]
8	[E]	Y	199	MONDAY NIGHT FOOTBALL 12/09	05.00
9	[E]	N	197	DONALD DUCKS 50th BIRTHDAY [illegible]	[illegible]

Press **EXEC** to add this package
PREV SCRN to return to the Pay Services Menu
HELP for information concerning packages

SCREEN ID # 241/

JP01120

3.241.1 ADD A NEW PACKAGE

This screen enables the customer to add a new subscriber service.

3.241.2 Procedure

a. From any menu screen, enter 213 ⟨GO TO SCREEN⟩. The screen that comes up will be the Pay Services Menu Screen. The cursor will be blinking at the menu selection field.

b. Enter 3 ⟨RETURN⟩. The Add A New Package screen will come up on the screen. The cursor will be blinking at the package number field.

c. Enter the number of the Package ⟨RETURN⟩. The cursor will blink at the Package name.

d. Enter the package name ⟨RETURN⟩. The cursor will then move to the price field.

CHANGE A PACKAGE

(From Pay Services Menu)

Package Number: 0013

Package Name: BASIC SERVICES Price 015.95

	Service Number	Type (S,E)	Sensitive (Y,N)	Service Code	Description	Price
Y	1	[S]	Y	023	HBO SVCCODE 23	99.99
	2	[S]	N	009	DIGITAL's INSIGHT MAGAZINE	31.03
Y	4	[S]	N	012	DISNEY Channel SVCCODE 12	05.95
Y	5	[S]	N	014	SHOWTIME SVCCODE 14	09.95
	6	[S]	Y	032	HTN SVCCODE 32	09.95
	8	[E]	Y	199	MONDAY NIGHT FOOTBALL CHEERS	05.00
	10	[S]	N	020	CHANNEL 11	02.98
	21	[E]	N	195	SVCCODE 195	2.99

Press **EXEC** to save the changes made to this package
PREV SCRN to return to the pay services menu
HELP for information about packages

SCREEN ID # 242/

JP01121

3.248.1 SYSTEM MANAGEMENT MENU

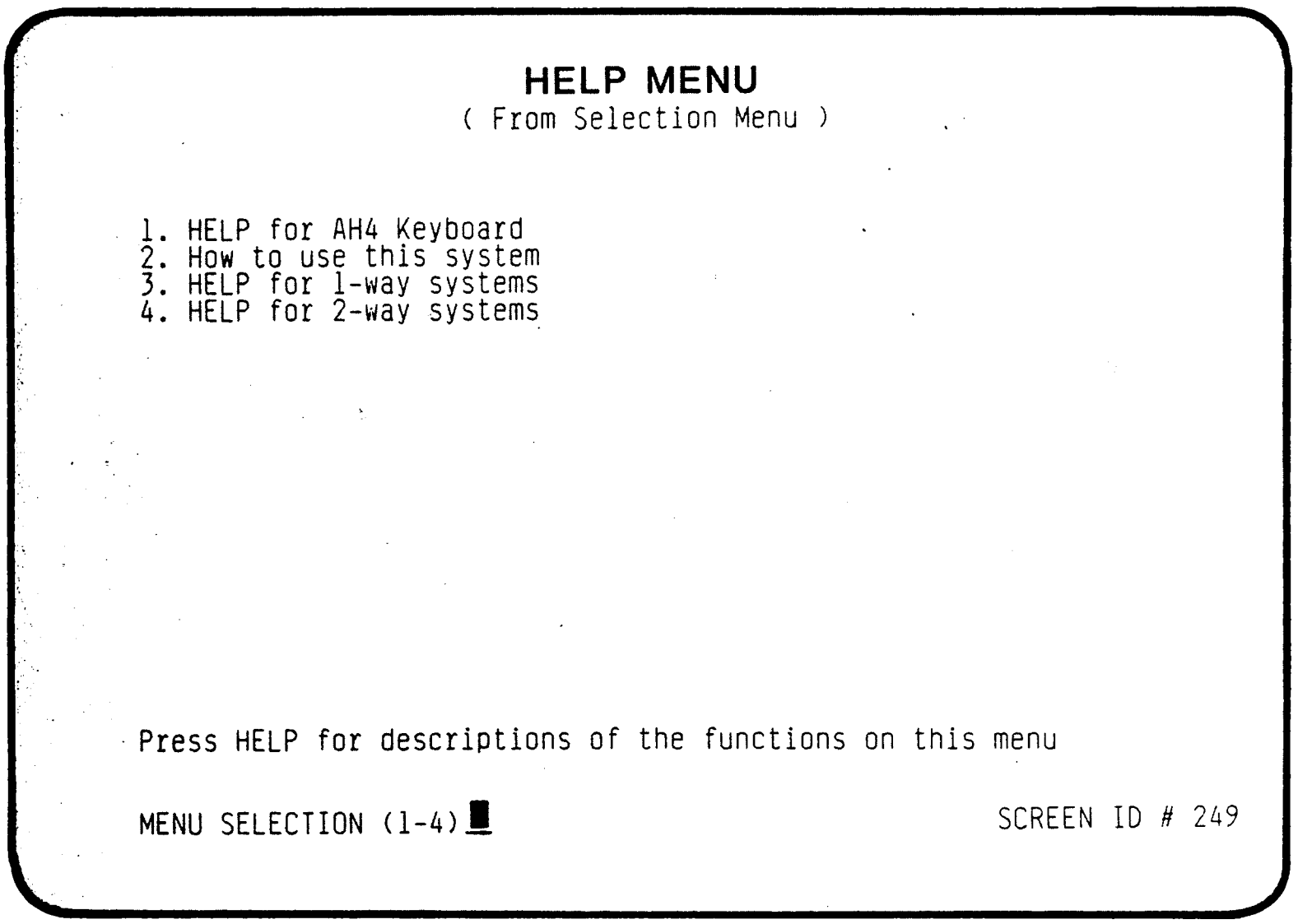
This function gives the user access to functions pertinent to the system management menu.

3.248.2 Procedure

a. From any menu screen, enter 248 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the menu selection field.

b. Select the option you wish. Note the corresponding number.

c. Enter that number ⟨RETURN⟩. The screen corresponding the number entered will now appear on your terminal.


HELP MENU
(From Selection Menu)
1. HELP for AH4 Keyboard
2. How to use this system
3. HELP for 1-way systems
4. HELP for 2-way systems
Press HELP for descriptions of the functions on this menu
MENU SELECTION (1-4)
SCREEN ID # 249

JP01122

3.249.1 HELP MENU

This screen will give the user access to the four functions on the help menu.

3.249.2 Procedure

a. From any menu screen, enter 249 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the selection field.

b. Select the option wanted. Note the corresponding number

c. Enter the number ⟨RETURN⟩. The screen corresponding to the number selected will be on the terminal.

SYSTEM UTILITIES MENU

(From Selection Menu)

Backup/Restore
1. Backup To Magnetic Tape
2. Restore Data Files

File Transfers
3. Transfer a File to Magnetic Tape
4. Update Subscriber File

Clear Files
5. Clear Activity Log File
6. Clear Data Collection File
7. Clear Opinion Poll File
8. Clear Error Log File
9. Clear Pay Services History File

Press HELP for descriptions of the functions on this menu

MENU SELECTION (1-9) _

SCREEN ID # 251

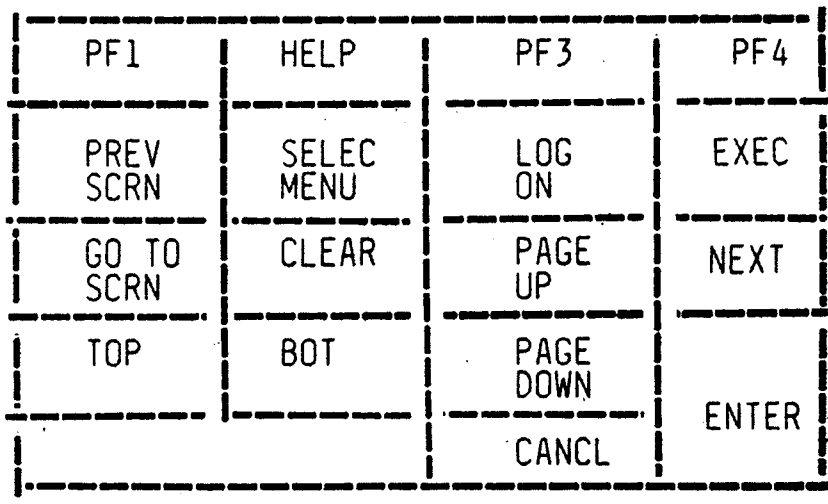
JP01123

AH4 KEYBOARD

(From Selection Menu)

AH4 Keypad Layout

For descriptions of each function key press HELP.



To return to the Selection Menu press any key other than HELP

SCREEN ID # 253/

JP01124

HOW TO USE THIS SYSTEM

(From Selection Menu)

SCREEN ID # 254/

JP01125

HELP FOR 1-WAY SYSTEMS

(From Help Menu)

SCREEN ID # 255/

JP01126

HELP FOR 2-WAY SYSTEMS

(From Help Menu)

SCREEN ID # 256/

JP01127

PPV MENU
(From Selection Menu)

Pay Per View Wire Link
    1. Start/Stop PPV Wire Link
    2. Change Debug Options
    3. Change Logging Options

Upgrade/Downgrade of Subscribers
    4. Change Subscriber PPV Information

PPV Billing Information
    5. Transfer PPV Information to Tape
    6. Print PPV Information

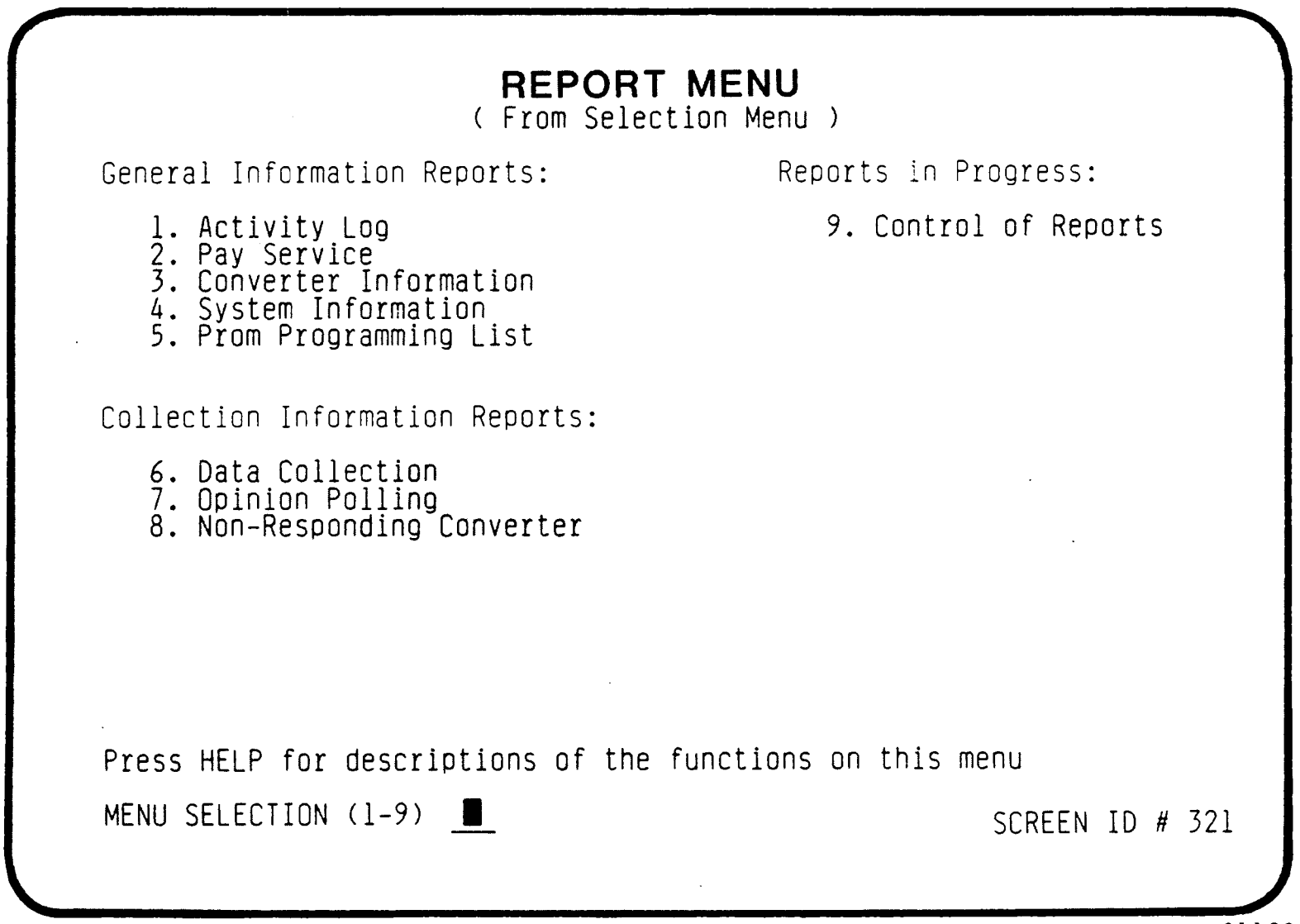
Exception Reporting
    7. Print PPV Exception Log

Press HELP for descriptions of functions on this menu

MENU SELECTION (1-7) ____

SCREEN ID # 300

JP01128



JP01129

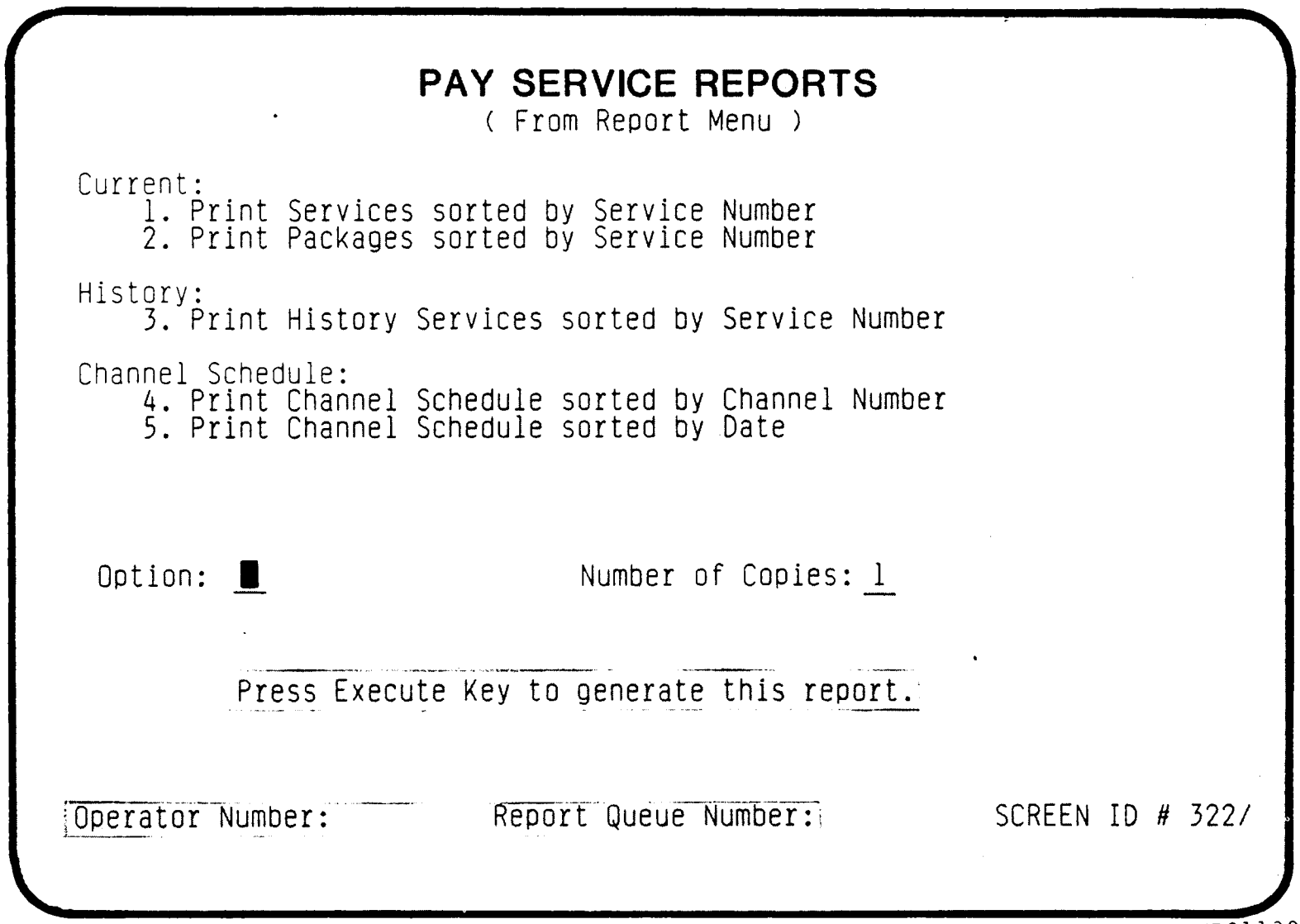
3.321.1 REPORT MENU

3.321.2 Procedure

a. From any menu screen, enter 16 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the menu selection option field.

b. Select the function desired. Note the corresponding number.

c. Enter that number ⟨RETURN⟩. The function selected will now appear on the terminal.


PAY SERVICE REPORTS
(From Report Menu)
Current:
1. Print Services sorted by Service Number
2. Print Packages sorted by Service Number
History:
3. Print History Services sorted by Service Number
Channel Schedule:
4. Print Channel Schedule sorted by Channel Number
5. Print Channel Schedule sorted by Date
Option:
Number of Copies: 1
Press Execute Key to generate this report.
Operator Number:
Report Queue Number:
SCREEN ID # 322/

3.322.1 PRINT SUBSCRIBER AUTHORIZATIONS

This function enables the user to obtain reports pertinent to subscriber authorization.

3.322.2 Procedure

a. From any menu screen, enter 326 ⟨GO TO SCREEN⟩ . When the screen comes up, the cursor will be blinking at the option field.

b. Select the report wished, note the corresponding number.

c. Enter the number ⟨RETURN⟩ . The cursor will then move to the number field.

d. Enter the number of reports ⟨RETURN⟩, the cursor will then move to the high and low fields.

e. Using the ⟨NEXT FIELD⟩ and ⟨PREVIOUS FIELD⟩ keys, move to the "from" field. Enter the serial number with which the report is to begin. The cursor will then move to the "from" field.

f. Enter the number with which the report is to end ⟨RETURN⟩ .

g. The system will then send message 423 - Working, followed by 806 - Report being generated. The printer will generate a report as soon as the system has collected information.

CONVERTER INFORMATION REPORTS

(From Report Menu)

1. Print Summary Information
2. Print Converter Information
3. Print Subscriber Authorizations
4. Print Service Number Information
5. Print Starcom V Information
6. Print Converter Status

Press HELP for descriptions of the reports on this menu

MENU SELECTION (1-6) ▮

SCREEN ID # 323

JP01131

PRINT SUMMARY INFORMATION

(From Converter Information Reports Menu)

This function provides a listing for the selected range of the total number of converters in every category of data kept in the AH4 controller.

Number of Copies: 1

Selection/Listing Keys:
1 - Subscriber ID 2 - Serial Number OR 3 - Account Number

Enter Selection Key: ■ Listing Order Key: _

From: _____ To: _____

Press Execute Key to generate this report.

Operator Number: Report Queue Number:

SCREEN ID # 324/

JP01132

PRINT CONVERTER INFORMATION

(From Converter Information Report Menu)

Report for a range of converters listing one of the following:

1. All information	7. Converter Type
2. Active Converters	8. Remote Unit Status
3. Inactive Converters	9. Converters in Transit
4. Connected Converters	10. Initialized Converters
5. Disconnected Converters	11. Converter Status
6. Purchase Status/Credit Limit	12. Date of Installation

Listing Option (1-12): 1 Number of Copies: 1

Selection/Listing Keys:
[1] - Subscriber ID [2] - Serial Number OR [3] - Account Number

Enter Selection Key: 2 Listing Order Key: 2

Serial Number From: J3M000000000 To: J3M999999999

Press Execute Key to generate this report

Operator Number: 1 Report Queue Number: 001 SCREEN ID # 325/

JP01133

PRINT SUBSCRIBER AUTHORIZATIONS

(From Converter Information Reports Menu)

Report of all authorized services for converters in the selected range.

Number of Copies: 1

Selection/Listing Keys:
1 - Subscriber ID 2 - Serial Number OR 3 - Account Number

Enter Selection Key: ■ Listing Order Key: ___

From: _____ To: _____

Press Execute Key to generate this report.

Operator Number: Report Queue Number:

SCREEN ID # 326/

JP01134

PRINT SERVICE NUMBER INFORMATION

(From Converter Information Reports Menu)

The detail report lists all subscribers in the selected range authorized for the entered service numbers. The summary report prints the total number of subscribers authorized for each service number.

1. Detailed service number report
2. Summary service number report

Listing Option (1 or 2) : _ Number of Copies: 1

Selection/Listing Keys:
[1] - Subscriber ID [2] - Serial Number OR [3] - Account Numbe5

Enter Selection Key: Listing Order Key:

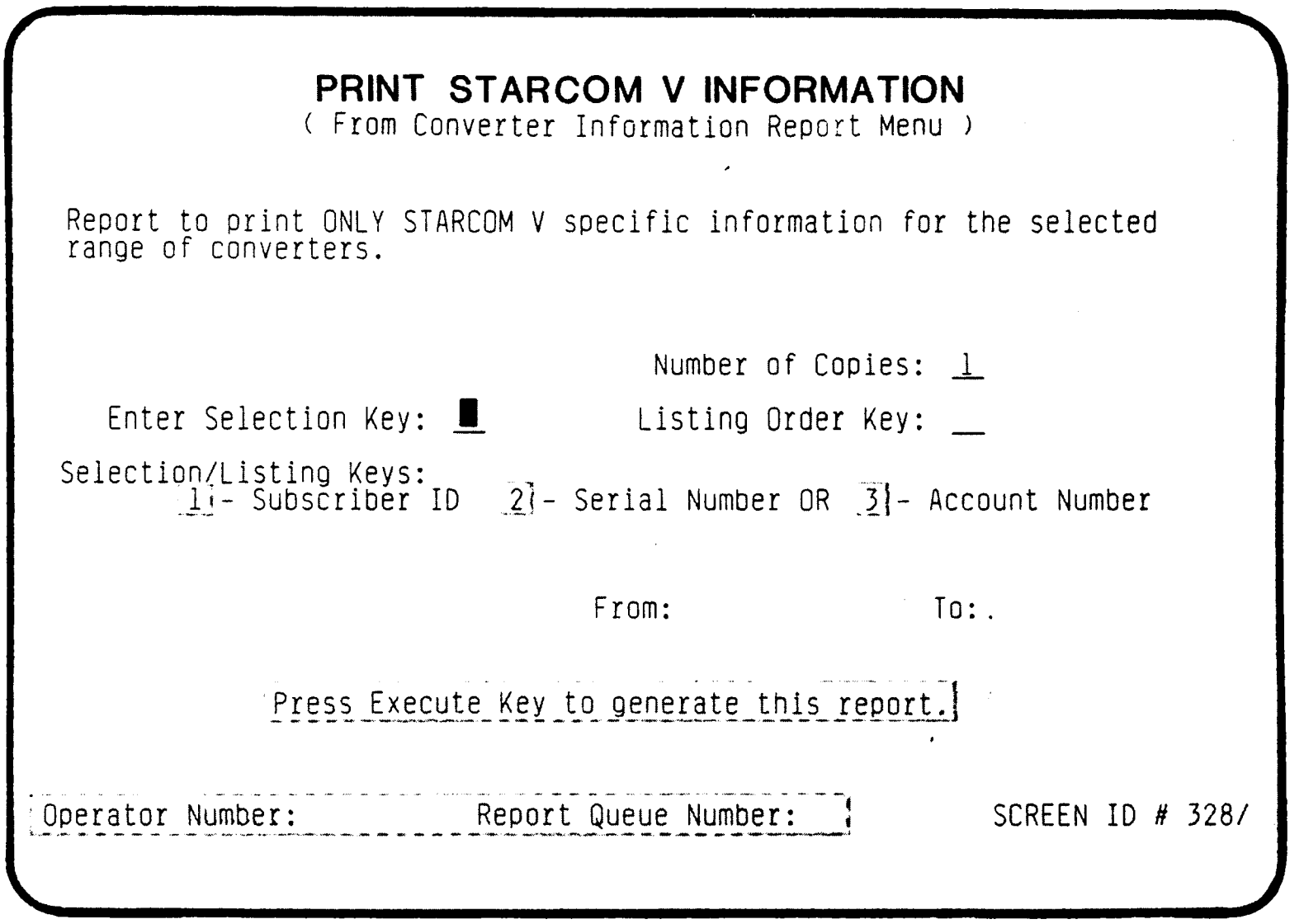
From: To:
Service Numbers From: To:

Press Execute Key to generate this report.

Operator Number: Report Queue Number:

SCREEN ID # 327/

JP01135


PRINT STARCOM V INFORMATION
(From Converter Information Report Menu)
Report to print ONLY STARCOM V specific information for the selected range of converters.
Number of Copies: 1
Enter Selection Key:
Listing Order Key:
Selection/Listing Keys:
1 - Subscriber ID 2 - Serial Number OR 3 - Account Number
From:
To:
Press Execute Key to generate this report.
Operator Number:
Report Queue Number:
SCREEN ID # 328/

3.328.2 PRINT STARCOM V INFORMATION

This function will give a printed summary of all information about STARCOM V converters.

3.328.2 Procedure

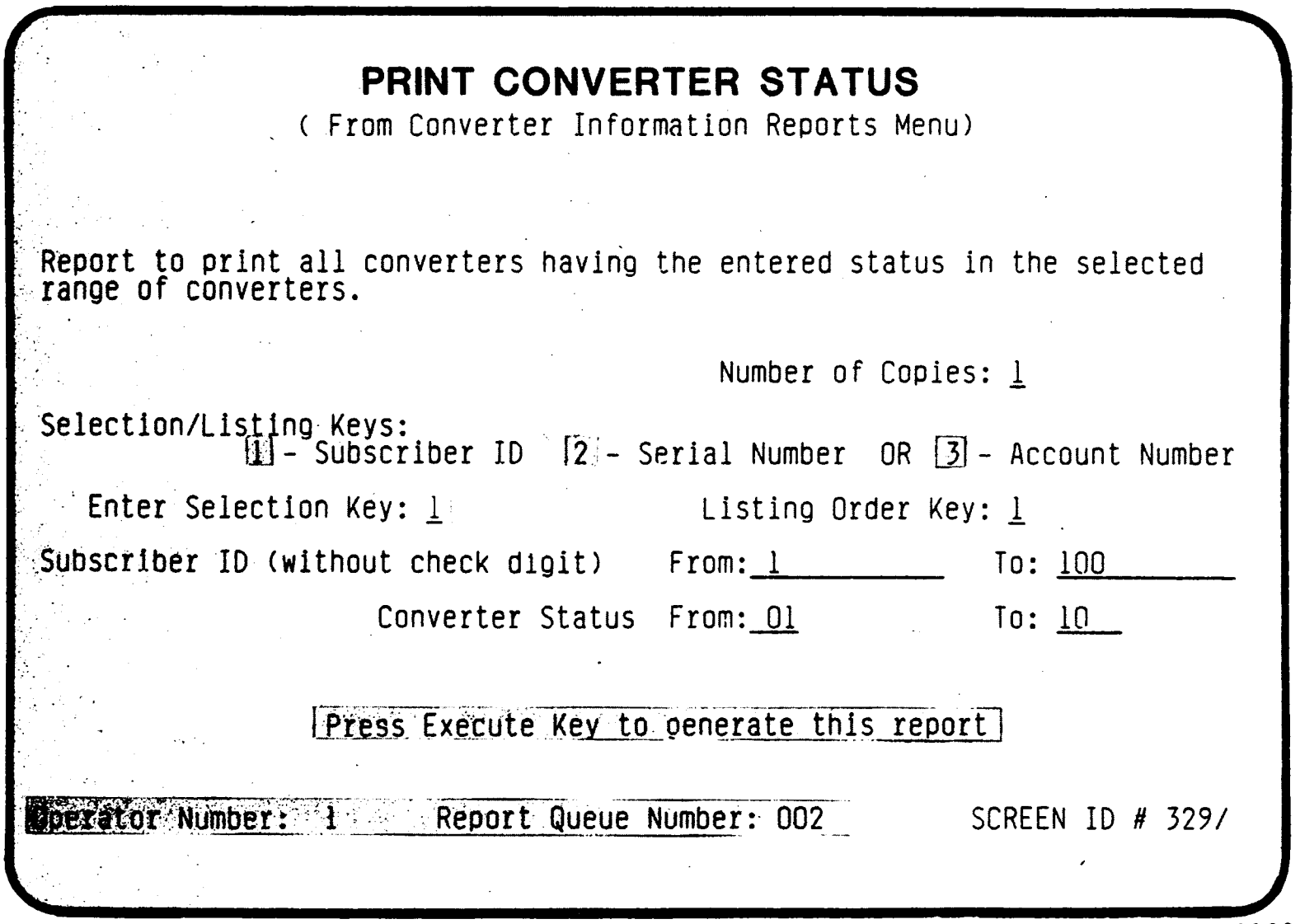
a. From any menu screen, press 39 ⟨GO TO SCREEN⟩ . When the screen comes up, the cursor will be blinking at the Selection Key field.

b. Choose the listed option you wish. Note the corresponding number (1, 2 or 3). Enter the option you wish ⟨RETURN⟩ . The cursor will now blink at the change field.

c. Enter the lowest serial number of the converter whose information you wish to print ⟨RETURN⟩ . The cursor will then move to the highest number field.

d. Enter the highest number whose serial number you wish to enter. Press ⟨EXECUTE⟩. The system will then send a message 4423 - Working, followed by 806 - Report Generation in Progress. The printer will then generate the report.

e. To exit from this screen, press ⟨PREVIOUS SCREEN⟩ key.


PRINT CONVERTER STATUS
(From Converter Information Reports Menu)
Report to print all converters having the entered status in the selected range of converters.
Number of Copies: 1
Selection/Listing Keys:
1 - Subscriber ID 2 - Serial Number OR 3 - Account Number
Enter Selection Key: 1
Listing Order Key: 1
Subscriber ID (without check digit) From: 1 To: 100
Converter Status From: 01 To: 10
Press Execute Key to generate this report
Operator Number: 1
Report Queue Number: 002
SCREEN ID # 329/

JP01138

3.329.1 PRINT CONVERTER STATUS

This function will give a listing of all converters according to the range selected.

3.329.2 Procedure

a. From any menu screen press 88 ⟨GO TO SCREEN⟩ . When the screen comes up, the cursor will blink at the selection key field.

b. Select the way the report is to be generated. Note the corresponding number (1, 2, or 3).

c. Enter that number ⟨RETURN⟩ . The cursor will then move to the "to" field.

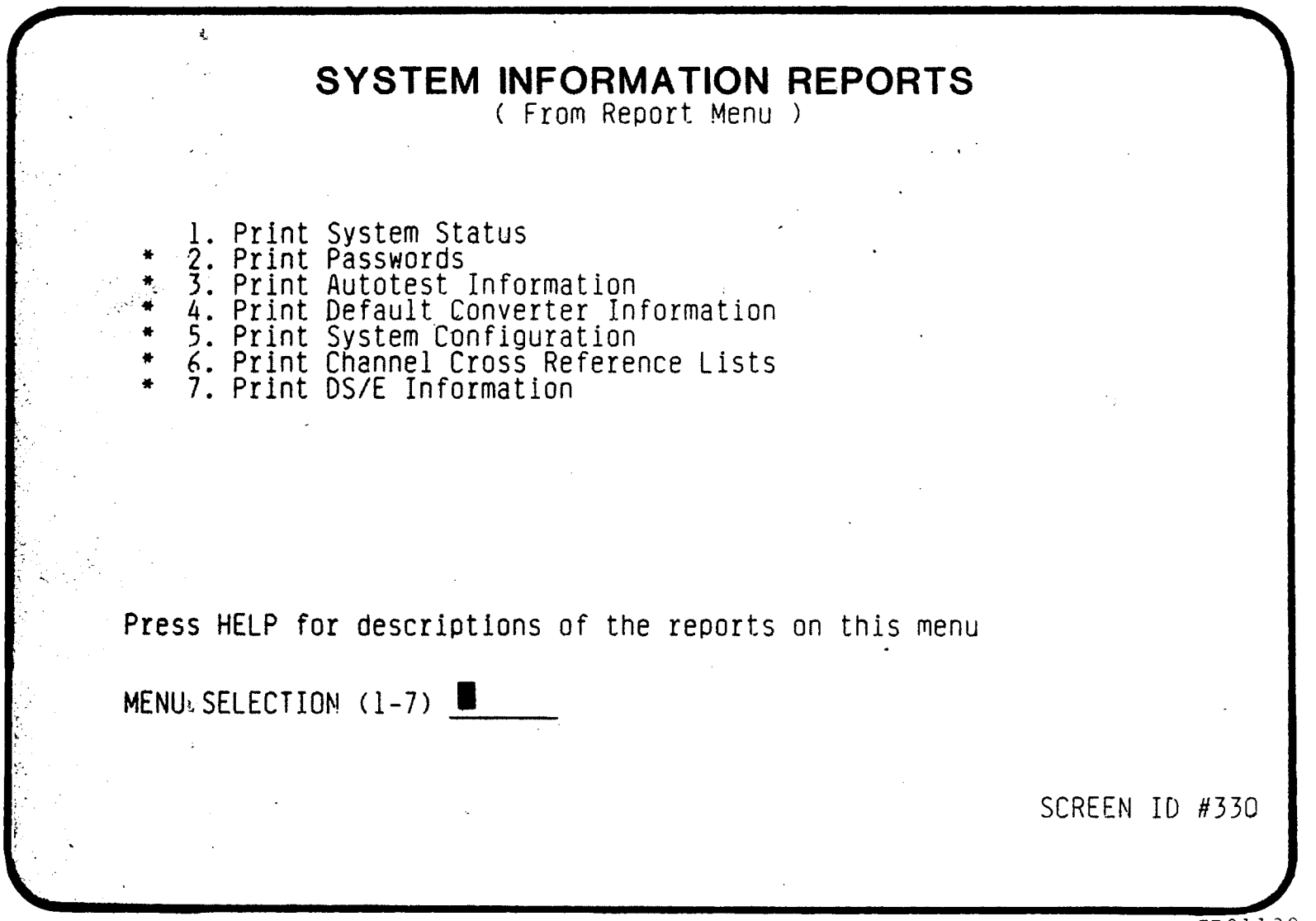
d. Enter the number with which the report is to start ⟨RETURN⟩ . The cursor will then move to the "from" field.

e. Enter the number with which you wish the report to stop ⟨RETURN⟩ . The cursor will then move to the converter status field.

f. Enter the converter status with which the report is to start.⟨RETURN⟩ . The cursor will then move to the "from" field.

g. Enter the converter status with which the report will stop ⟨RETURN⟩ . The system will send message 423 - Working, followed by 806 - Report being generated. The printer will print the report.

h. To exit this screen, press ⟨PREVIOUS SCREEN⟩ .


SYSTEM INFORMATION REPORTS
(From Report Menu)
1. Print System Status
* 2. Print Passwords
* 3. Print Autotest Information
* 4. Print Default Converter Information
* 5. Print System Configuration
* 6. Print Channel Cross Reference Lists
* 7. Print DS/E Information
Press HELP for descriptions of the reports on this menu
MENU SELECTION (1-7)
SCREEN ID #330

JP01139

3.330.1 SYSTEM INFORMATION REPORT

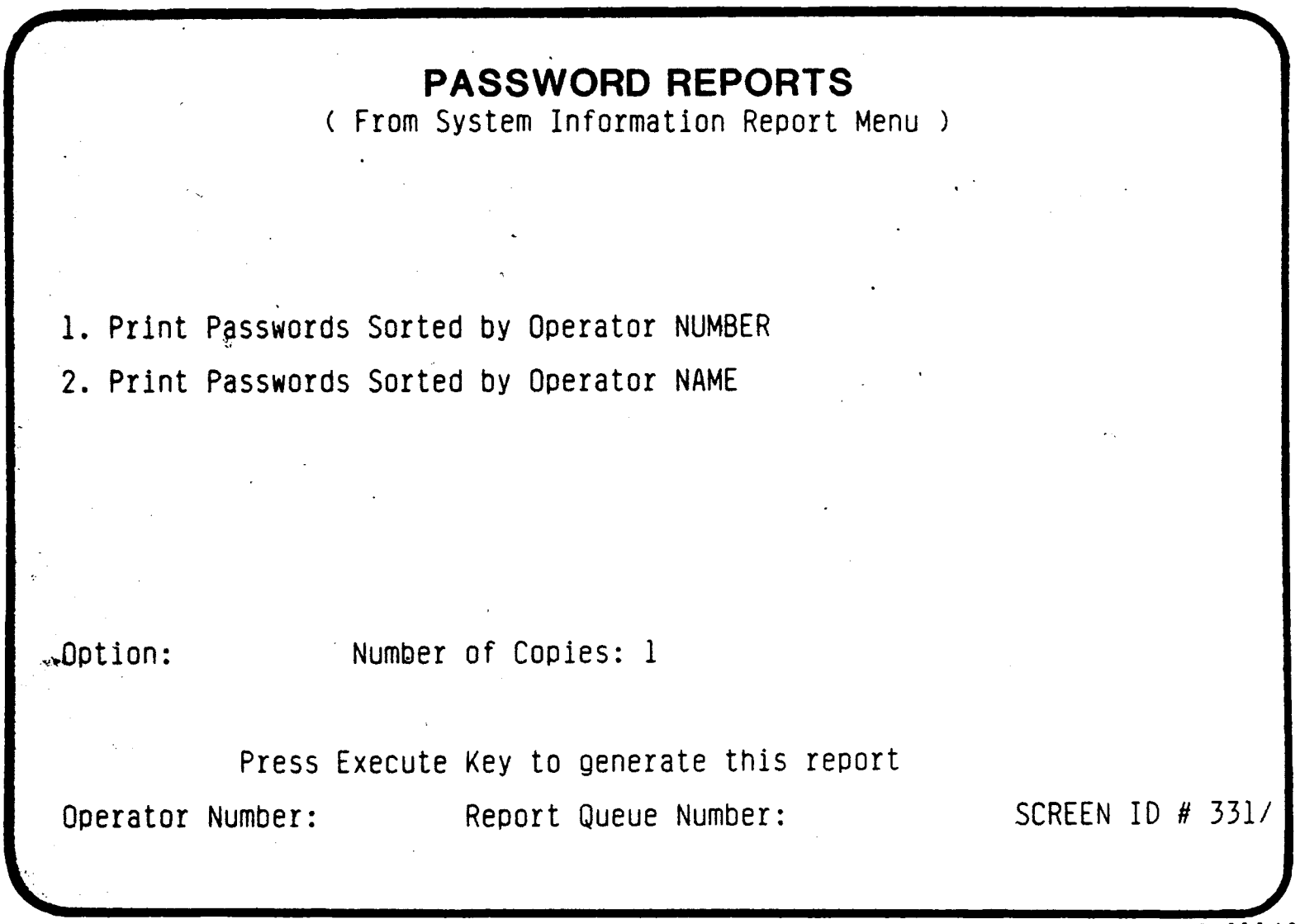
This function enables the user to obtain reports pertinent to the AH-4 system.

3.330.2 Procedure

a. From any menu screen enter 330 ⟨GO TO SCREEN⟩ . When the screen comes up, The cursor will be blinking at the menu selection field.

b. Select the desired report, note the corresponding number.

c. Enter the number ⟨RETURN⟩ . The function selected will now be on the screen.


PASSWORD REPORTS
(From System Information Report Menu)
1. Print Passwords Sorted by Operator NUMBER
2. Print Passwords Sorted by Operator NAME
Option:
Number of Copies: 1
Press Execute Key to generate this report
Operator Number:
Report Queue Number:
SCREEN ID # 331/

3.331.1 PASSWORD REPORTS

This function will generate a list of all system passwords. They may be sorted by name or number.

3.331.2 Procedure

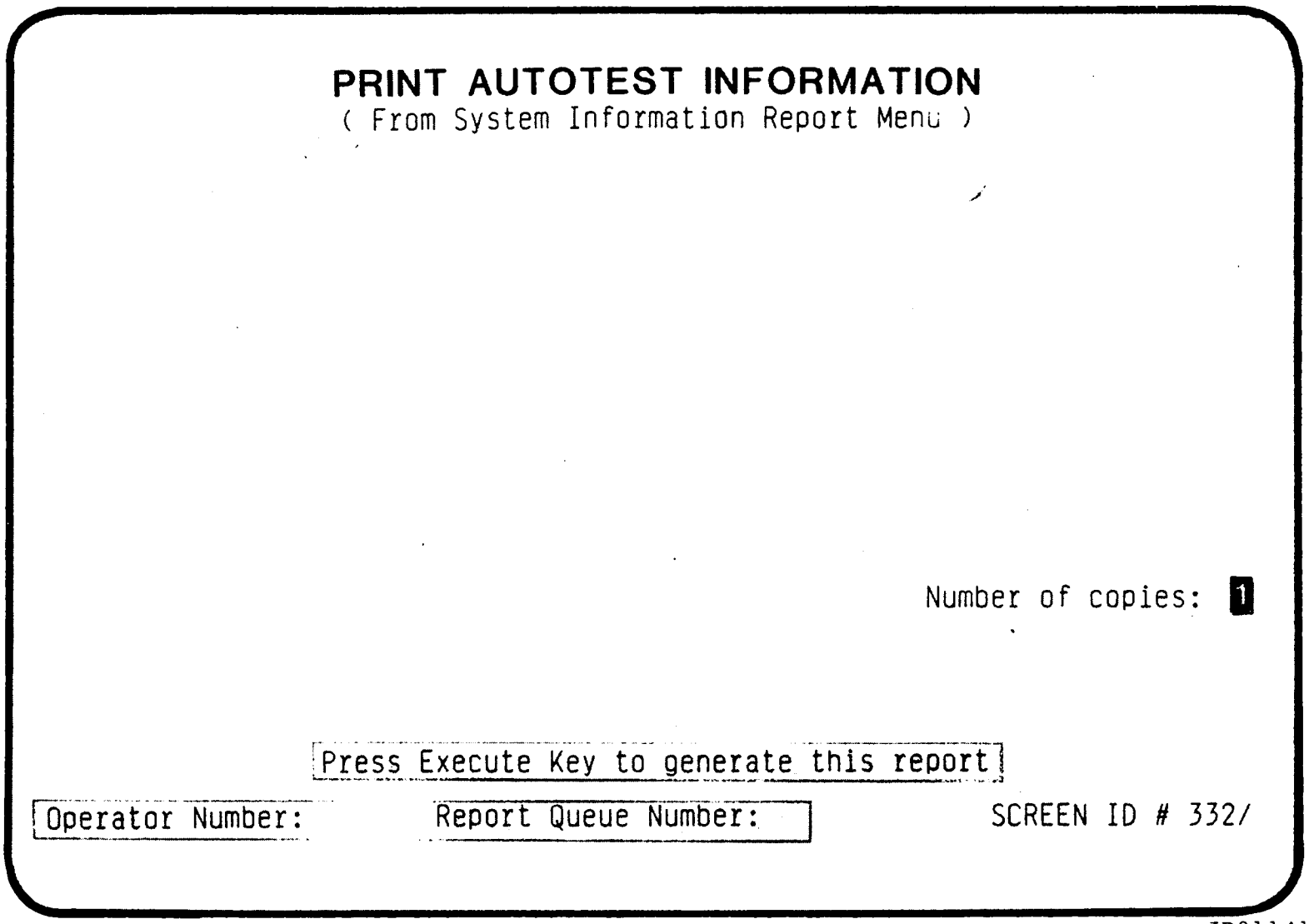
a. From any menu screen, enter 331 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the option entry field.

b. Select the option, note the corresponding number.

c. Enter that number ⟨RETURN⟩ . The cursor will then move to the number field.

d. Enter the number of copies ⟨EXECUTE⟩ . The system will then send message 423 - Working, followed by 806 - Report Generation in Progress. The system will generate a report as soon as data is collected.

e. To exit this system, press ⟨PREVIOUS SCREEN⟩ key.


PRINT AUTOTEST INFORMATION
(From System Information Report Menu)
Number of copies: 1
Press Execute Key to generate this report
Operator Number:
Report Queue Number:
SCREEN ID # 332/

3.332.1 PRINT AUTO TEST INFORMATION

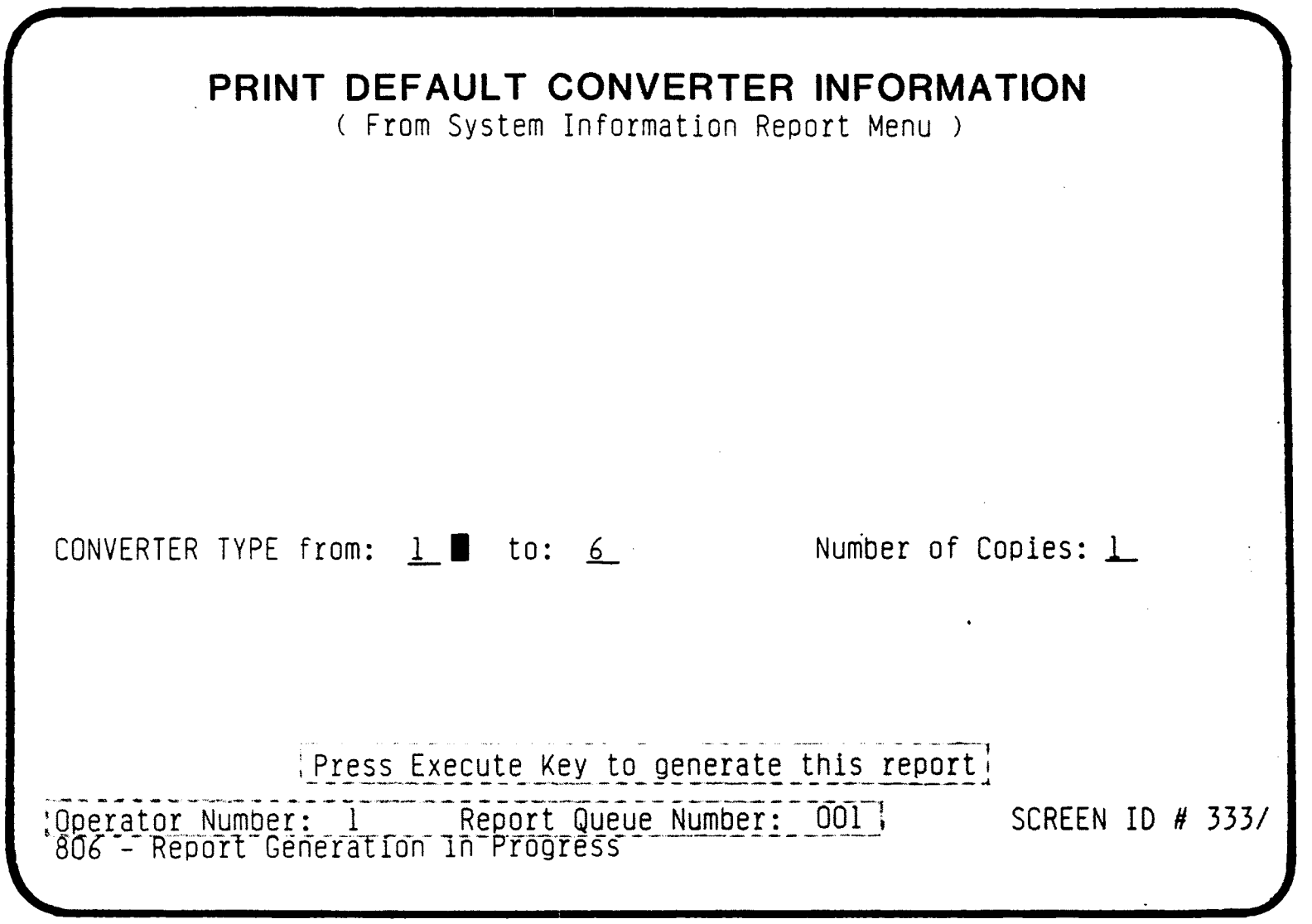
This function gives a print out of the auto test sequence performed by a converter.

3.332.2 Procedure

a. From any menu screen, enter 332 ⟨GO TO SCREEN⟩ . When the screen comes up, the cursor will be blinking at the number of copies filed.

b. Enter the number of copies ⟨EXECUTE⟩ . The system will send message 423 - Working, followed by message 806 - Report Generation in Progress. The printer will generate the report as soon as the system collects the data.

c. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.


PRINT DEFAULT CONVERTER INFORMATION
(From System Information Report Menu)
CONVERTER TYPE from: 1 to: 6
Number of Copies: 1
Press Execute Key to generate this report
Operator Number: 1 Report Queue Number: 001
SCREEN ID # 333/
806 - Report Generation in Progress

3.333.1 PRINT DEFAULT CONVERTER INFORMATION

This function gives the user default converter information. The report is generated according to the converter type selected.

3.333.2 Procedure

a. From any menu screen enter 333 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the converter type field.

b. Enter the lowest converter type to be printed ⟨RETURN⟩. The cursor will now move to the "to" field.

c. Enter the number with which the report is to stop ⟨RETURN⟩. The cursor will then move to the number of copies field.

d. Enter the number of copies to be printed ⟨EXECUTE⟩. The system will then send message 806 — Report Generation In Progress. The printer will generate the report as soon as the system collects the data.

e. To exit from this screen, press the ⟨PREVIOUS SCREEN⟩ key.

PRINT CHANNEL CROSS REFERENCE LISTS
(From System Information Report Menu)

Cross Reference List Numbers from: 1 to: 99 Number of Copies: 1

Press Execute Key to generate this report

Operator Number: Report Queue Number: SCREEN ID # 335/

3.335.1 PRINT CHANNEL CROSS REFERENCE REPORTS

This function enables the user to obtain channel cross reference lists.

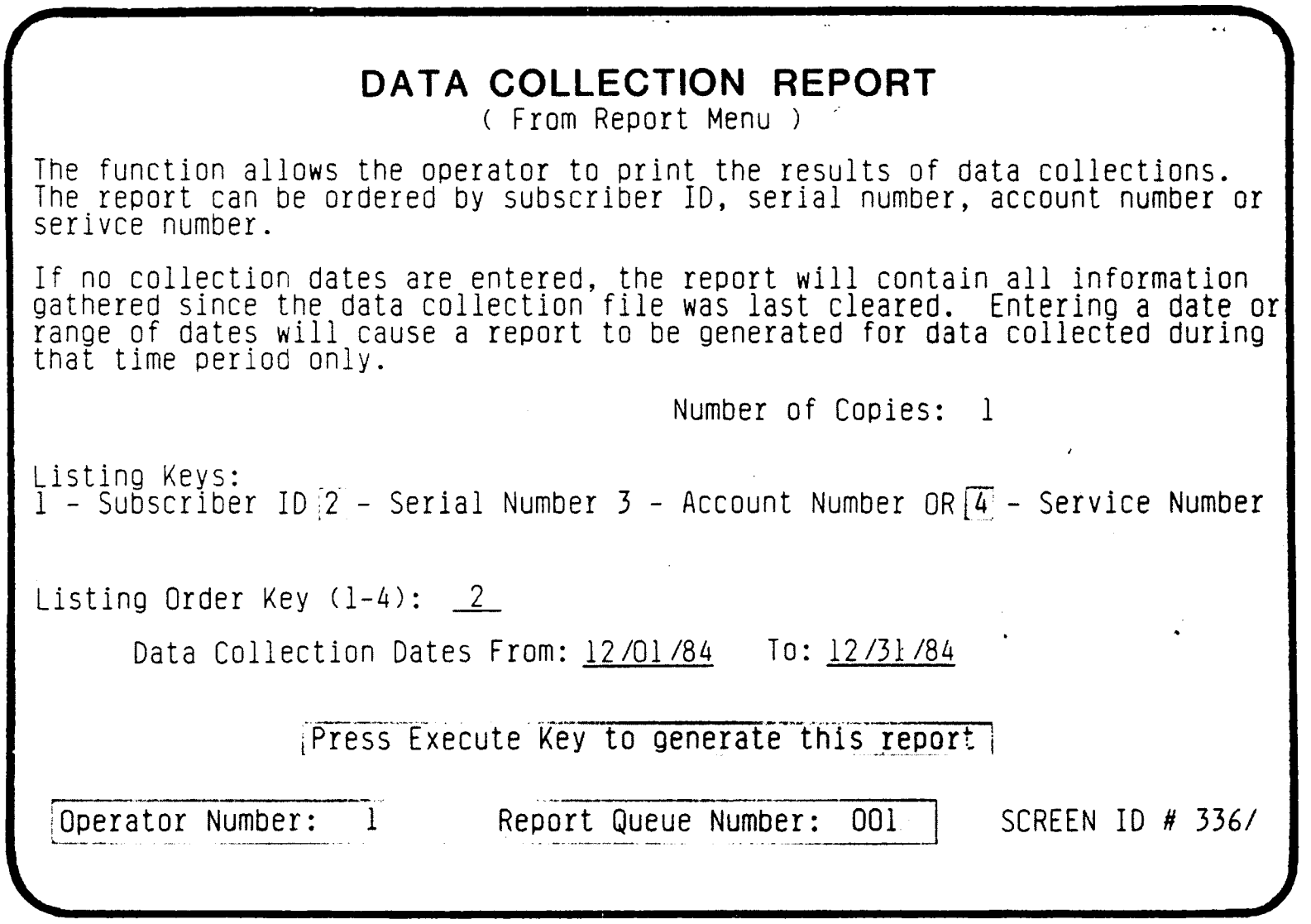
3.335.2 Procedure

a. From any menu screen enter 335 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will blink at the from field.

b. Enter the channel number with which you wish the report to start ⟨RETURN⟩. The cursor will then move to the "to" field. Enter the number with which the report is to stop ⟨RETURN⟩. The cursor will then move to the number field.

c. Enter the number of copies to be generated ⟨EXECUTE⟩. The system will then send message 423 — Working, followed by 806 — Report Generation in Progress. The printer will generate the report as soon as the system has collected the information.

d. To exit from this screen, press ⟨PREVIOUS SCREEN⟩ key.


DATA COLLECTION REPORT
(From Report Menu)
The function allows the operator to print the results of data collections. The report can be ordered by subscriber ID, serial number, account number or serivce number.
If no collection dates are entered, the report will contain all information gathered since the data collection file was last cleared. Entering a date or range of dates will cause a report to be generated for data collected during that time period only.
Number of Copies: 1
Listing Keys:
1 - Subscriber ID 2 - Serial Number 3 - Account Number OR 4 - Service Number
Listing Order Key (1-4): 2
Data Collection Dates From: 12/01/84 To: 12/31/84
Press Execute Key to generate this report
Operator Number: 1
Report Queue Number: 001
SCREEN ID # 336/

3.336.1 DATA COLLECTION REPORT

This function permits the user to obtain a printout of the results of data collections. The report can be generated by Sub ID, serial number, account number, or service number.

3.336.2 Procedure

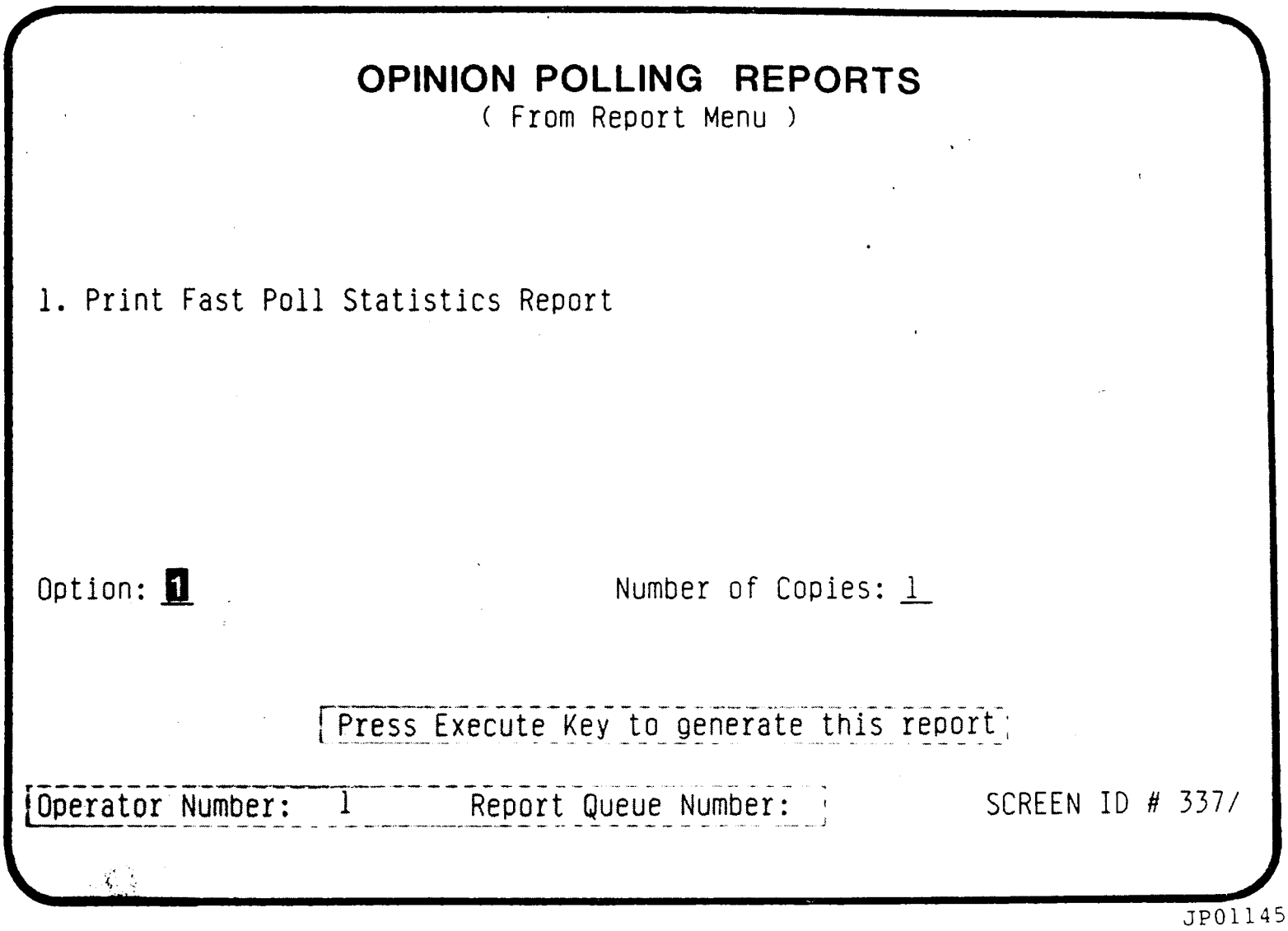
a. From any menu screen enter 67 ⟨GO TO SCREEN⟩. When the screen comes up, it will be blinking at the Listing Order Key.

b. Select the way the report is to be generated. Note the corresponding number (1 to 4).

c. Enter that number ⟨RETURN⟩. The cursor will then move to the "from date" field.

d. Enter the date with which the report is to start ⟨RETURN⟩. The cursor will move to the "to date" field. Enter the date with which you wish the report to stop ⟨RETURN⟩. The system will send message 423 — "Working" and 806 — Report Generation in Progress.

e. To exit from this screen, press the ⟨PREVIOUS SCREEN⟩ key.


OPINION POLLING REPORTS
(From Report Menu)
1. Print Fast Poll Statistics Report
Option: 1
Number of Copies: 1
Press Execute Key to generate this report
Operator Number: 1
Report Queue Number:
SCREEN ID # 337/

JP01145

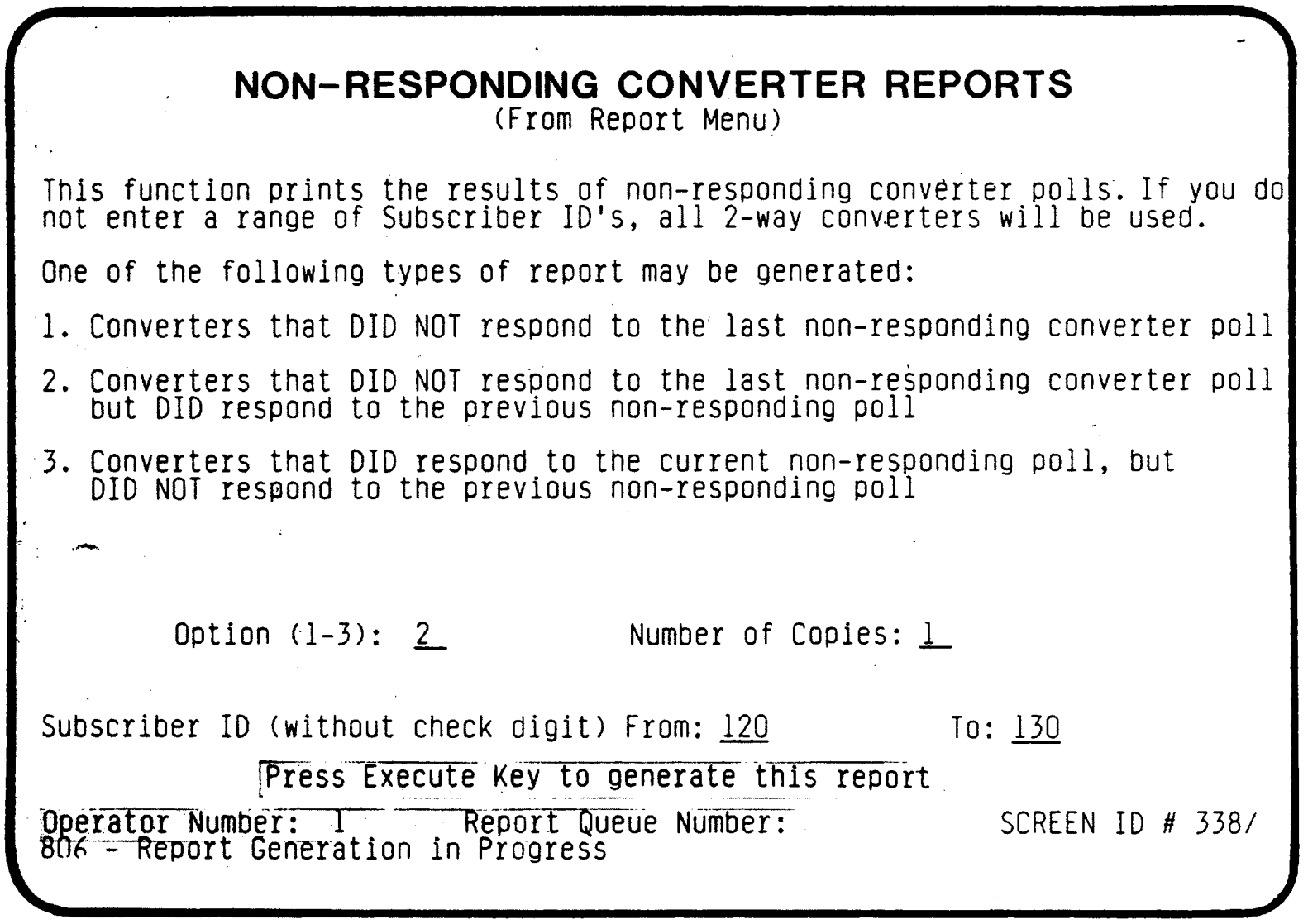
3.337.1 OPINION POLLING REPORTS

3.337.2 Procedure

a. From any menu screen enter 68 ⟨GO TO SCREEN⟩. When the screen comes up the cursor will be blinking at the Option field.

b. Enter 1 ⟨RETURN⟩. The system will send message 423 — Working, followed by 806 — Report Generation In Progress. The report will be generated by the printer as soon as the system collects the information.

c. To exit this screen press ⟨PREVIOUS SCREEN⟩.


NON-RESPONDING CONVERTER REPORTS
(From Report Menu)
This function prints the results of non-responding converter polls. If you do not enter a range of Subscriber ID's, all 2-way converters will be used.
One of the following types of report may be generated:
1. Converters that DID NOT respond to the last non-responding converter poll
2. Converters that DID NOT respond to the last non-responding converter poll but DID respond to the previous non-responding poll
3. Converters that DID respond to the current non-responding poll, but DID NOT respond to the previous non-responding poll
Option (1-3): 2
Number of Copies: 1
Subscriber ID (without check digit) From: 120
To: 130
Press Execute Key to generate this report
Operator Number: 1
Report Queue Number:
SCREEN ID # 338/
806 - Report Generation in Progress

3.338.1 Non-Responding Converter Reports

This function enables the user to obtain a print of new responding and non-responding converters. The report may be sorted according to Sub ID, serial number, and account number.

3.338.2 Procedure

a. From any menu screen enter 338 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the selection field.

b. Select the type of report you want and the way it is to be sorted. Note the corresponding number ⟨RETURN⟩.

c. Enter the number ⟨RETURN⟩. The cursor will then move to the Sub ID sort field.

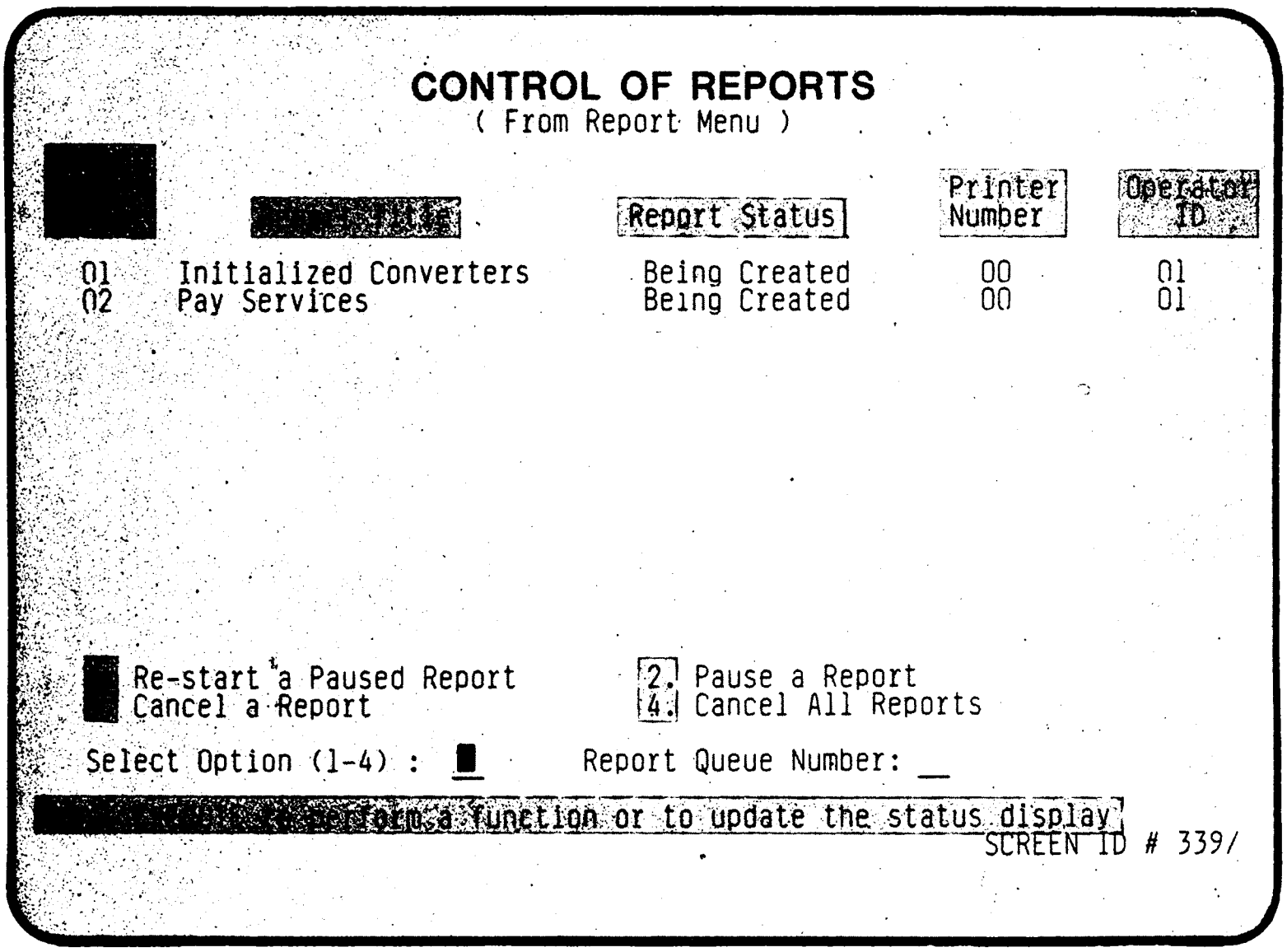
d. Using the ⟨NEXT FIELD⟩ key move the cursor to the "from field" with the way the report is to be generated.

e. Enter the lowest number ⟨RETURN⟩. The cursor will then move to the "to" field.

f. Enter the number with which you wish the report to stop ⟨RETURN⟩.

g. The cursor will then move to the "date from" field. Enter the date with which you wish the report to start ⟨RETURN⟩. The cursor will then move to the "to" field. Enter the date with which the report is to stop ⟨RETURN⟩. The system will send a message "423 — Working" followed by "806 — Report being generated." The printer will print the report as soon as the system collects the data.

h. To exit this field, press ⟨ PREVIOUS SCREEN⟩.



JP01148

3.339.1 CONTROL OF REPORTS

This function enables the user to control the status of reports being generated. Specific control functions include stopping (or pause) a report, cancelling one or all reports, and restarting a report.

3.339.2 Procedure

a. From any menu screen,enter 339 ⟨GO TO SCREEN⟩. When the screen comes up, the cursor will be blinking at the report queue number field. The system will send message 821 — Checking For Reports In Progress.
   1. If reports are not being generated, the system will send message 817 — No Reports In Progress. Since no reports are being generated, the user should exit this screen.
   2. If the system is generating reports, the system will display the reports on the screen.

b. Select the report whose status is to be changed. Note the corresponding queue number. Enter that number ⟨RETURN⟩. The cursor will move to the option field.

c. Select the option desired. Note the corresponding number (1 through 4).

d. Enter the number ⟨EXECUTE⟩. The system will send a message indicating the activity of the option selected.

e. To exit this screen, press ⟨PREVIOUS SCREEN⟩ key.

ACTIVITY LOGGING REPORTS

(From Report Menu)

1. Print Full Activity Log Report
2. Print Activity Log Report of Connects and Disconnects
3. Print Activity Log Report of Activations and Deactivations
4. Print Activity Log Report of Service Changes for a Service
5. Print Activity Log Report Ordered by Subscriber ID Number
6. Print Activity Log Report Ordered by Subscriber ACCOUNT Number
7. Print Activity Log Report Ordered by OPERATOR Number

SERVICE ID:
SUBSCRIBER ID:
ACCOUNT ID:
OPERATOR ID:

MENU SELECTION

SCREEN ID # 340

4.1 WIRE LINK MESSAGES

50 — Invalid Converter Type
51 — Subscriber ID Already Assigned
52 — Changing Account Numbers Invalid
53 — Error In Transmission To The Converter
54 — Subscriber ID or Serial Number Required
55 — Serial Number Already Assigned
56 — No Serial Number Supplied
57 — Invalid Serial Number
58 — Converter Initialization Failed
59 — Account Number Already Assigned
60 — Telephone Number Not All Numeric
61 — Invalid Purchase Number
62 — Invalid Timeout Length
63 — Invalid Tuning Type
64 — Invalid Time Zone
65 — Invalid Channel Cross Reference List
66 — Invalid Output Channel 3
67 — Invalid Barker Channel Number
68 — Invalid Number of Entries to Follow
69 — Service Not Available
70 — Subscriber ID Not Found
71 — Serial Number Not Found
72 — Two-Way Converter Not Responding
73 — Parental Control - Locked Update Not Valid For Converter Type
74 — Converter Type Does Not Agree
75 — Invalid Action Code
76 — Invalid Subscriber ID
77 — Volume Control Update Not Valid For Converter Type
78 — Converter Serial Number Mis-Match
79 — Invalid Date Format
80 — Date Less Than Current Date
81 — Parental Control - Morality Update Not Valid For Converter Type
82 — Purchase Limit Update Not Valid For Converter Type
83 — Timeout Length Update Not Valid For Converter Type
84 — Emergency Alert Update Not Valid For Converter Type
85 — Tuning Type Update Not Valid For Converter Type
86 — Time Zone Update Not Valid For Converter Type
87 — Channel Cross Reference List Update Not Valid For Converter Type
88 — Output Channel 3 Not Valid For Converter Type
89 — Purchases Allowed Update Not Valid For Converter Type
90 — Remote Update Not Valid For Converter Type
91 — Clear Parental Control Update Not Valid For Converter Type
92 — Invalid Emergency Alert
** 93 — Trouble Accessing Pay Services
94 — Duplicate Service Number In Update
95 — Service Number To Down Grade Not Selected
96 — Service Number To Upgrade Already Selected
97 — Clear Purchase Event Update Not Valid For Converter Type
98 — Last Channel Update Not Valid For Converter Type
99 — Time Display Update Not Valid For Converter Type

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
** - JERROLD PERSONNEL SHOULD BE CONTACTED

4.1 (continued)

100 — Autotest Update Not Valid For Converter Type
101 — Amplifier Update Not Valid For Converter Type
102 — Invalid Amplifier
103 — Invalid Account Number
104 — Account Number Not Found
** 105 — Other Data Base Error
** 106 — Invalid Data Base Key Type
107 — PPV Group Update Entry Sucessful
108 — Converter Already Initialized
109 — Service No Longer on Pay Service File
* 110 — Data Base Record In Use - Try Again Later
* 111 — System Is Busy - Cannot Process Request - Try Again Later
112 — Changing Serial Number Invalid
113 — Error In Opening Communications with The Converters
114 — Two-Way Converter Responding
115 — Converter Is Not Two-Way
116 — Converter Is Not Connected
117 — Converter Mis-Match
118 — Changing Subscriber ID Invalid
* 119 — Invalid Subid Format

IF LAST NUMBER IN THE 119 MESSAGE IS:
1 — SUBSCRIBER ID SET TO BINARY 0'S FOR RECORD TYPE GREATER THAN 260 (ADD)
2 — SUBSCRIBER ID SET TO BINARY 1'S FOR RECORD OTHER THAN 260 (ADD)
3 — SUBSCRIBER ID GREATER THAN 256K AND 512K OPTION NOT SENT
4 — SECOND PART OF SUBCRIBER ID INVALID (I.E, NOT BETWEEN 0 AND 7)
5 — FOR QUICK COMPARE RECORD TYPE 310 — SUBSCRIBER ID OUT OF RANGE

* 120 — Record Rejected
121 — Duplicate Service Number In Update
122 — Converter Not Activated
123 — Deleting Event On Two-Way Box Not On Date Base
124 —
125 —
126 —
127 —
128 —
129 —
130 — This Line Prints The Text Message Transmitted From The Host
131 — Record Type Not Implemented Yet
132 — This Line Prints as a Blank Line to Separate Output
133 — Invalid Record Type From Host
** 134 — Open File Error
** 135 — Read File Error
** 136 — Write File Error
** 137 — Close File Error
138 —
139 —
140 — ⟨⟨⟨- Sync Received From Host ⟩⟩⟩
141 — Request Processed - Subscriber ID =

* BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
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4.1 (continued)

142 — Request Rejected - Response Message Follows - RETRY
143 — Request Rejected - Response Message Follows - NO ENTRY
144 —
** 145 — Mapping To/From Configuration - Area Error
146 —
** 147 — Bad Task ID or Too Many Tasks - Contact Jerrold !!!
** 148 — Invalid SIGNON Status - Contact Jerrold !!!
** 149 — Wire Link Port Attach Error
150 — ⟨⟨⟨ HOST MESSAGE - Seq. No. nnnnnn - -⟩⟩⟩ - nnn - -⟩⟩⟩
151 — activate = subid = serial no = conv type = action c. =
152 — account = phone no = remote = time zone = =
153 — status = emerg. = purchases = output ch. = barker ch =
154 — p. limit = amplifi. = t.type = initialize = cross ref =
155 — time dis = autotst = last chn = p.c. locked = p.c. moral =
156 — = install = volume c = timeout = services =
157 —
158 — ⟨⟨⟨- REMOTE RESPONSE - Seq. No. -⟩⟩⟩
159 — Number Of Responding Converters =
160 — Responding Converter 1, Responding Converter 2, etc.
161 — Number For PPV Group Update By Subscriber ID
162 — Subscriber/Service 1, Subscriber/Service 2, etc
163 — Number For PPV Group Update by Serial Number
164 — Serial/Servic 1, Serial/Service 2, etc
165 — Number For PPV Group Update By Account Number
166 — Account/Service 1, Account/Service 2, etc
167 — Read Data Base
168 — Read Converter Contents
169 — Read Converter Purchases
170 — ..... Packet Checksum Errors =
171 — ..... Data Overrun Errors =
172 — ..... Input Buffer Overflow Errors =
173 — ..... Other I/O Errors =
174 — ..... Parity Errors =
175 — ..... Packet Size Errors =
176 — ..... Inter Packet Time Out Errors =
177 — ..... Packet Sequence Errors =
178 — ..... STX/STX Sequence Errors =
179 — ..... Transmit Errors =
180 — ..... XOFF Time Out Errors =
181 —
182 —
183 —
184 —
185 —
186 — ..... Records Received =
187 — ..... Records Successful =
188 — ..... Type Errors =
189 — ..... Other Errors =
190 — ..... Assign New Subscriber - Type 260 =
191 — ..... Change Subscriber Information - Type 262 =

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
** - JERROLD PERSONNEL SHOULD BE CONTACTED

4.1 (continued)

192 — ..... Delete Subscriber Information - Type 263 =
193 — ..... Initialize Converter Information - Type 264 =
194 — ..... Clear Parental/Purch. Keys Information - Type 265 =
195 — ..... Read Subscribrer Information From DB - Type 280 =
196 — ..... Subscriber Information from DB - Type 281 =
197 — ..... Read Subscriber Information from Converter - Type 282 =
198 — ..... Subscriber Information from Converter - Type 283 =
199 — ..... Collect SUB Purch. from Conv. - Type 284 =
200 — ..... Collected SUB Purch. from Converter Type 285 =
201 — ..... Read Collected SUB Purch. from DB - Type 286 =
202 — ..... Collected SUB Purch. from DB - Type 287 =
203 —
204 — ..... Test Single Converter - Type 290 =
205 — ..... Responding Converters - Type 292 =
206 — ..... PPV Group Update By Subscriber ID - Type 294 =
207 — ..... PPV Group Update By Serial Number - Type 296 =
208 — ..... PPV Group Updates By Account Number - Type 298 =
209 — ..... Wake Up Packet -Type 0 =
210 — ..... Synchronization Command - Type 1 =
211 — ..... Controller Reset - Type 2 =
212 — ..... Text Message Transferred -Type 40 =
213 —
214 — ..... Old Change (One Way) - Add. - Type 60 =
215 — ..... Old Change (One Way) - CHG. - Type 60 =
216 — ..... Old Change (One Way) - DEL. - Type 60 =
217 — ..... Old Change (One Way) - ERR. - Type 60 =
218 — ..... Old Change (Serial/Accont) - Type 160 =
219 — THIS LINE PRINTS AT THE END OF THE STATISTICS DISPLAY
220 — ..... Protocol I/D Error
221 —
222 —
** 223 — ..... Wire Link Port Detach Error
** 224 — ..... Put Received from Applic. Portion While in Input Mode
** 225 — ..... Illegal Function Call by Applic. Portion of Wire Link
226 — ..... Transmission Error (Packet Checksum)
227 — ..... Transmission Error (Data Overrun)
228 — ..... Transmission Error (Input Buffer Overflow)
229 — ..... Transmission Error (Other I/O Error)
230 — ..... Transmission Error (Parity)
231 — ..... Transmission Error (Packet Size)
232 — ..... Transmission Error (In Packet Time Out)
233 — ..... Transmission Error (Packet Sequence)
234 — ..... Transmission Error (STX/STX Sequence)
235 — ..... Transmission Error (Transmission Error)
236 — ..... Transmission Error (XOFF Time Out)
237 —
238 —
239 —
240 —
241 — WL byte dump: ibuff in ptr = nnnn out ptr = nnn cur byte = nn ( )

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
** - JERROLD PERSONNEL SHOULD BE CONTACTED

4.1 (continued)

242 — WL input packet vars dump: sequence = nnn size = nnn type = nnn
243 — WL packet protocol error - dump of input buffer (char values are hex)
244 — WL dump of input buffer when ETX received (char values are hex)
245 —
246 — WL input packet (char val are hex): len = nnnn strt = nnnn stop = nnnn
247 — Starting Byte Number, Byte 1, Byte 2, etc (Bytes are displayed in HEX)
248 — WL informative msg: input zTX found - - - where z = E or S
249 — WL dump of output buffer (char values are hex): final pkt char at nnnn
250 —
251 — WL dump of output packet (char values are hex): final pkt char at nnnn
252 —
253 — byte dump: nn ( )
254 — WL hex dump of work buffer on input: wbpklen = nnnn checksum = snnnnn
255 — WL hex dump of work buffer on output: wbpklen = nnnn checksub = snnnnn
256 —
257 —
258 —
259 — THIS LINE PRINTS AT THE END OF THE DEBUG DISPLAY
260 —
261 — Encoded Act. Wrd - Not Set Or Invalid Bits
262 — Encoded Act. Wrd - Connect And Disconnect
263 — Encoded Act. Wrd - Activate And Deactivate
264 — Encoded Act. Wrd - Disconnect And Others(s)
265 —
266 — Encoded Act. Wrd - No Action Found
267 — Encoded Act. Wrd - Change And No Wds To Follow
268 — Encoded Act. Wre - Wds to Follow And No Others
** 271 — Trouble with Prologs In Start Up
** 272 — Trouble with System Config. In Start Up
273 — Wire Link Not Requested
** 274 — Trouble with Wire Link Conf. In Start Up
276 — Wire Link Not Started
277 — Wire Link Restarting Because of System Restart
278 —
279 —
** 280 — TASK COMMUNICATION ERROR - Failure While Doing Mapping
** 281 — TASK COMMUNICATION ERROR - Full
** 282 — TASK COMMUNICATION ERROR - Closed
** 283 — TASK COMMUNICATION ERROR - Bad Destination
** 284 — TASK COMMUNICAtION ERROR - Bad Task Name
** 285 — TASK COMMUNICATION ERROR - Problems with Inner-Task Communications
286 —
287 — Wire Link Already Started
288 — Wire Link Already Stopped
** 289 — Error In Class From Screen
** 290 — This Error Appears On CRT Screen - Bad Class From Wire Link
** 291 — Screen Requested Option Which Is Not Implemented
** 292 — Screen Request Is Out Of Sync From Current Status
293 — Wire Link Cannot Signon - Ignored
294 — Wire Link Cannot Signoff - Ignored

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
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4.1 (continued)

295 — W Link Inactive
296 — W Link Active
297 — - Values =
298 — System Message To Shut Down Received - Terminating Wire Link
299 —
300 —
301 —
302 —
303 —
304 —
305 —
306 —
307 —
308 —
309 —
** 310 — WL Port Initialization - Trouble with PROLOG
** 311 — WL Port Initialization - Trouble with CPROLOG
312 — WL Port Initialization - Trouble Pointing to CONFIG
** 314 — WL Port Initialization - Trouble Pointing Back From CONFIG
**315 — WL Port Initialization - Trouble Reading WLCONFIG File
** 316 — WL Port Initialization - Trouble Accessing The DZ11 Board
317 —
318 —
319 —
320 — return level =
321 — # of transactions =
322 — Transaction 1, Transaction 2, etc
323 — cir serv = serv's =
324 —
325 —
326 —
327 —
328 —
329 —
330 — ..... Quick Compare Received - Set Mode =
331 — ..... Quick Compare Sent - Set Mode =
332 — ..... Quick Compare Received - Normal Record =
333 — ..... Quick Compare Sent - Normal Record =
334 — ..... Quick Compare Received -Disconnected Rcd =
335 — ..... Quick Compare Sent - Disconnected Rcd =
336 — ..... Quick Compare Received - Open =
337 — ..... Quick Compare Sent - Open =
338 — ..... Quick Compare Received - Reset Mode =
339 — ..... Quick Compare Sent - Reset Mode =
340 —
341 —
342 —
343 —
344 —
345 —

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
** - JERROLD PERSONNEL SHOULD BE CONTACTED

4.1 (continued)

346 —
347 —
348 — (THIS BLANK LINE IS PRINTED BETWEEN TRANSACTIONS)
** 349 — UNKNOWN ERROR IN MESSAGE PROCESSOR NN
350 —
351 — WL ERR SEQ = TYP = XXXXX RETRY = ERRs =

Where "xxxxx" is SUBID, SERIAL, or NONE

352 — Quick Cpr Err (310) - Service Mismatch
353 — Quick Cpr Err (310) -Cannot Enter Quick Compare Mode
354 —
355 —
356 —
357 —
358 —
359 —
360 — Quick Cpr Mode Err - Not In Mode
361 — Quick Cpr Mode Err - In Mode
362 — Quick Cpr Err (310) - Command Word Zeros
363 — Quick Cpr Err (310) - Command Word Sent To Host
364 — Quick Cpr Err (310) - Command Word Printing
365 — Quick Cpr Err (310) - Low SUBID Invld
366 — Quick Cpr Err (310) - High SUBID Invld
367 — Quick Cpr Err (310) - Low SUBID Range
368 — Quick Cpr Err (310) - High SUBID Range
369 — Quick Cpr Err (310) - High SUBID ⟨ = Low SUBID
370 — Quick Cpr Err (310) - # Of Services Invalid
371 — Quick Cpr Err (310) - Services ⟩ 64 and no 2nd 310
372 — Quick Cpr Err (310) -Services ⟨ = 64 and 2nd 310
373 —Quick Cpr Err (310) - Service Flag Sent But No Services
374 — Quick Cpr Err (310) - Service Flag Not Sent But Services
375 — Quick Cpr Err (310) - # Of Services Different Between 310
376 — Quick Cpr Err (310) - # Of Services ⟨⟩ Service Entries
377 —
378 —
379 —
380 — Quick Cpr Err (312) - Start SUBID Invalid
381 — Quick Cpr Err (312) - Start SUBID Range
382 — Quick Cpr Err (312) - # Of SUBID's Invalid
383 — Quick Cpr Err (312) - # Of SUBID's Invalid
384 — Quick Cpr Err (314) - Start SUBID Invalid
385 — Quick Cpr Err (314) - Stop SUBID Invalid
386 — Quick Cpr Err (314) - Start SUBID Range
387 — Quick Cpr Err (314) - Stop SUBID Range
388 — Quick Cpr Err (314) - Range Invalid
389 —
390 — Quick Cpr Err (310) - Format Error
391 — Quick Cpr Err (312) - Format Error
392 — Quick Cpr Err (314) - Format Error

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
** - JERROLD PERSONNEL SHOULD BE CONTACTED

4.1 (continued)

393 — Quick Cpr Err (316) -Format Error
394 — Quick Cpr Err (318) - Format Error
395 —
** 396 — Quick Cpr Err (320) - Diff's in 320
** 397 — Quick Cpr Err (320) - Undef In 320
** 398 — Quick Cpr Err (320) -Invalid In 320
** 399 — Quick Cpr Err (320) - Not Implemented In 320
400 — Enter ⟨EXIT KEYS⟩, ⟨RETURN⟩, ⟨EXECUTE⟩
401 — Trouble Redisplaying Screen (snnnnn)
402 — Trouble Displaying Screen (snnnnn)
403 — No Fields for Screen
404 — More than 2 Field on Screen
405 — No "A" Field for Current Screen
406 — No "Z" Field for Current Screen
407 — Trouble With GETTOP
408 — Trouble With GETBOTTOM
409 — Bad Task ID or Too Many Tasks
410 — Invalid SIGNON status (nnnnn)
411 — Can Not Access Function at This Time - Try Again Later
412 — Not Currently Assigned
413 — Not Currently Implemented
414 — Enter Password Followed By ⟨RETURN⟩
415 — Invalid Name or Password Entered — Please Try Again
416 — Upper Limit must be Greater than the Lower Limit
417 — Press execute to perform operation
418 — Report Task Scheduled
419 — No Response from Scheduler
420 — Cannot Schedule Task
421 — CRT Station Signing Off!
422 — System Being Taken Down - CRT Station Signing Off
423 — WORKING
424 — Subscriber Deleted
425 — Event Key Cleared
426 — Control Key Cleared
427 — Collected Purchases Cleared
429 — Frequency change was NOT properly done - Try Again
430 — The change in the frequency was successfully made
431 — Entered data is not octal
432 — Numeric required
433 — Illegal selection - please retry!
434 — This operator number cannot be deleted
435 — Set all required parameters before executing function
436 — Channel Cross Reference List Not Found
437 — Duplicate Service Number - Re-Enter = nnnn
438 — Pay Service Number exists, try again
439 — Enter values for both service numbers
440 — Event time overlaps with Service Number NNN
441 — Screen Does Not Exist
442 — Any Updated Channel Cross Reference List is not saved
443 — Service Number NNN deleted

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
** - JERROLD PERSONNEL SHOULD BE CONTACTED

4.1 (continued)

444 — Pay Service does not exist
445 — ***PAY SERVICE COMMON NOT UPDATED BY HEADEND MGR***
446 — Can not log on to system at this time
447 — New Cross Reference List to be Defined is Table
448 — System unavailable at this time
449 — Updating Pay Services
450 — Updating default converter information
451 — Can not schedule update of default converter file
452 — Operator not priveleged to access password
453 — Invalid Data - Press HELP for more information
454 — Unable to change Subscriber Identity
455 — Updating Subscriber Info-this may take a while -
456 — Downloadable converters initialization completed
457 — Data Collection File Cleared
458 — Opinion Poll File cleared
459 — Service number NNNN is not a package
460 — Service number NNNN is not a subscription or an event
461 — Pay Service History File Cleared
462 — No change in Identity Detected
463 — Default Converter Record Successfully Updated
464 — Loson Screen Failure
465 —
466 — Please Enter your User Name Followed by ⟨RETURN⟩
467 — More than 32 service have been selected - only 32 used
468 — *** GPackage added ***
469 — Channel Schedule already exists
470 — Channel Schedule does not exist
471 — Warning: Channel mismatch of Pay Service and Schedule
500 — Failure While Doing Pipe Mapping
501 — Pipe (snnnnn) Full
502 — Pipe (snnnnn) Not Open
503 — XXXXXXXXXX not active
504 — Bad Task Name On Pipe (snnnnn)
505 — Problem with the pipes
506 — Auto Table Updated, will not currently be Used
507 — Auto Test Table updated successfully
508 — No AutotestSteps given by the Operator
509 — Error in Communicating with Autotest
600 — Enter ⟨EXITS⟩, ⟨RETURN⟩, ⟨EXECUTE⟩, ⟨CLEAR⟩, ⟨CANCEL⟩
601 — Received Bad Data from POLTSK
602 — Error During Poll
603 — Cannot Do Data Collection At This Time
604 — Poll Failed - Unexpected termination
605 — DATA COLLECTION STARTED
606 — POLL CANCELLED
607 — POLL IN PROGRESS
608 — Collecting the Responses
609 — Press the paging buttons to scroll, or Cancel to exit
610 — Verify Failed
611 — Informed customer that responses can be entered

* - BILLING SYSTEM PERSONNEL SHOULD BE CONTACTED
** - JERROLD PERSONNEL SHOULD BE CONTACTED

4.1 (continued)

612 — DATA COLLECTION IN PROGRESS
613 — VERIFY IN PROGRESS
614 — Enter Y or N
615 — Opinion Poll Initiated
616 — PREPARING FOR COLLECTION OF ALL PURCHASES
617 — Press EXECUTE to initiate Data Collection
618 — Cannot do Data Collection, No segments turned on
619 — Data Collection Cancelled
620 — Opinion poll cancelled
621 — Invalid poll class returned NNN
622 — Poll is not running
623 — Service poll cancelled
624 — Non Responding Converter poll cancelled
625 — Single Converter poll cancelled
626 — The request to Cancel DID NOT work
627 — Cancel key depressed - Execution Halted
700 — Updating the Converter not Successful
701 — Setting the initialized value to "N" not successful
702 — Error during opening punch line
703 — Converter not responding
704 — Operation Was Successful
705 — Converter Not Initialized
800 — No room for this report at present
801 — Difficulty in Processing, Report NOT Generated
802 — Upper and lower limits must be specified
803 — The "TO" date must NOT be smaller
804 — Illegal limits
805 — Bad return message received
806 — Report Generation in Progress
807 — Enter both Starting and Ending Date of Collection
808 — Severe Error, report will NOT be Generated
809 — Report is not implemented
810 — Invalid Report Status class received
811 — Not in Sync with Report Manager pipe count
812 — Cannot restart at this time, Too many reports active
813 — Report xx does not exist
814 — Cannot pause a report that is being printed
815 — Report xx is not paused
816 — Report xx is already paused
817 — No Reports in Progress
818 — Report xx is successfully paused
819 — Report xx has been cancelled
820 — Report xx has been re-started
821 — Checking for Reports in Progress
822 — ALL reports have been cancelled
823 — Illegal printer name. Enter a valid printer name
824 — Hit Previous, Selection or Logon key to exit screen
900 — No Action taken - Wire Link already started
901 — No Action Taken - Wire Link Already Stopped
902 — ERROR - Wire Link request not implemented

4.1 (continued)

903 — ERROR - Class sent to Wire Link is invalid
904 — Request was successful
905 — ERROR - Class send FROM Wire Link is invalid
906 — The current options for this Screen
907 — ERROR - Wire Link and Screen out of sync
908 — No Action Taken -Wire Link is not permitted to Start

4.2 SYSTEM MESSAGES

000 — Cannot Clear Control Key On Starvue Converters
001 — Cannot Clear Event Key On One -Way Converters
002 — Converter Serial # Mismatch —
003 — Converter Not Responding
004 — Converer Initialization Failed
005 — Convertr Already Initialized
006 — Data Collection Cannot Be Done For This Converter Type
007 — Converter Initialization Successful
008 — All Converters Cleared Of Collected Purchases
009 — Babbling Converter Missed — Restart Test
010 — Babbling Converter Search Initialization Failed
011 — Error Detecting or Deleting Babbling Converter
012 — Reset Demodulator & Configuration Frequency — Restart
013 — Failed to turn on converter response lights
014 — Failed to turn the converter light off
015 — Search cancelled; Babbling converters may still exist!
016 — Serial # xxxxxxxxxxxx, Subid xxxxxxxx Initialized
017 — Serial # xxxxxxxxxxxx, Subid xxxxxxxx Not Responding
018 — Serial # xxxxxxxxxxxx, Subid xxxxxxxx Init Failed
019 — Converter Not Responding
020 — Converter Test Procedure in Progress
021 — Converter Test Procedure Completed
022 — Converter not Initialized
023 — Unable to perform test procedure
024 — ****** Warning — Converter has not been cleared ******
025 — Refresh of Converter Information Successful
026 — Converter must be initialized before it is refreshed
027 — Beginning Babbling Converter search
028 — Beginning alternatealgorithm
029 — Babbling Converter found, Subid = NNNNNNNN
030 — Error # NNN occurred during search
031 — Search successful, NNNNNN babbling converters found
032 — Search failed; Babbling converters may still exist!
033 — Starting Initialization of Babbling Converter Algorithm
034 — Error — Failed to find any babbling converters
035 — Babbling converter search retries exhausted
036 — Function cannot be performed for this Converter Type
037 — Serial # xxxxxxxxxxxx, Subid xxxxxxxx Not Cleared
100 — Map to Configuration Region Failure
101 — There are no two way converters in configuration
102 — Warning ⟨This does not include all 2 — way converters⟩
103 — FATAL unable to access forms library
104 — FATAL — Error assigning form channel, status = NNN
105 — System in NOT Configured for Wire Link.
106 — Configured partition types do not match converter type
107 — System is not configured for PPV Wire Link
108 — Subids configured for quality control are out of range
200 —
201 — Data Base Routine Aborted
202 — Subscriber Info in use by another Task — try later
203 — Information Not Found For Subscriber ID = nnnnnnnn
204 — Information Not Found For Serial # aaaaaaa
205 — Invalid Data Base Request — Check Error Code (snnnnn)

4.2 (continued)

206 — Subscriber ID Already In Use =
207 — Subscriber ID Not In Use =
208— Subscriber Not Connected
209 — Converter Serial Number Not in Use =
210 — Duplicate Keys — Re-enter with a Different Key
211 — Converter Inforrnation Cleared
212 — Converter Serial Number Already In Use = xxxxxxxxx
213 — Information Not Found For Accnt Number = xxxxxxxxx
214 — Error During Database Access
215 — Account Number Not In Use =
216 — Account Number Already In Use =
217 — Information Is unavailable — Try Again Later
218 — Database manager task unavailable, function terminated
219 — Database record not reserved
220 — Database encountered RMS error
221 — Information Not Found
222 — Information Deleted
223 — Information Already in Use
224 — Information Updated Successfully
225 — No More Records With Requested Operator Name
226 — Service number is out of range
227 — New service numbers item must be 1, S/W error
228 — No more service numbers available
229 — Pay Service successfully updated
230 — Pay Service successfully stored
231 — Pay Service marked for delete
232 — Can not access information — system locked
233 — Converter Information not deleted
234 — End of file reached
235 — Duplicate password entered
236 — No more data for this function
237 — DS/E record not found
238 — An Operator name is needed
239 — This function is not allowed for this configuration
240 — Password is required
241 — DS/E record is updated
242 — DS/E record has been added
243 — No more subscriber IDs are available
244 — Channel schedule successfully updated
245 — Channel schedule successfully stored
246 — Channel schedule marked for delete
300 — Invalid where — to — go in ISCMAIN
301 — Invalid NAME ( ) in vld1sub
302 — Invalid Entry — press help key
303 — Invalid NAME ( ) in vld2sub
304 — Available Services Table Invalid (/) — Reload
305 — Invalid fieldload in get1sc (snnnnn)
306 — Invalid fieldname in get1 ( )
307 — Invalid fidxn in getsub (snnnnn)
308 — Invalid Request — Returning to LOGON Menu
309 — Invalid Entry — Valid Entries Are Y or N
310 — Invalid Check Digit for Subscriber ID — re-enter ( )
311 — Subscriber ID Required

4.2 (continued)

312 — Sub ID not in address range for Converter Type ( )
313 — Subscriber ID is Out Of Range of the Hardware Config.
314 — Invalid Converter Serial # Error Found in Pos. ( )
315 — Converter Serial Number Required
316 — Invalid Range — Range ( ) to ( )
317 — Invalid Month, Day or Year — Date Format is MM/DD/YY
318 — Invalid Date — Less Than Current Date of
319 — Installation Date Required for this Converter type
320 — Warning — Time Out should be 8 to 128 in 2 Hr. Increment
321 — Invalid Request Number for this Menu
322 — Insufficient Privilege for Requested Screen
323 — Invalid Terminator — Refer To The Instruction Manual
324 — Selected Pay Service # No Longer Available =
325 — Subscriber ID not Two-way
326 — Need Entryto Key Off Of Before Next Group Option
327 — Invalid Option Number For GO TO SCREEN Request
328 — Tuning Type "I" not allowed for STARCOM VI
329 — Change Subscriber Identity Completed
330 — Invalid character entered
331 — Value for minutes must be from 0 to 59
332 — Channel entered is invalid
333 — Invalid Service Code
334 — Invalid site code
335 — Invalid Range — Range ( ) to ( ) Octal
336 — Enter one of the options from above
337 — Only pay services accessible until services updated
338 — Can not exit until updates implemented (option 10)
339 — Can not delete service until valid service # entered
340 — Channel Cross Reference list # nn not found
341 — Illegal Channel. Channel Range is from 2 To
342 — Service Code not valid for this configuration
343 — This service code does not match this sensitivity
344 — Output channel selected can be H for high or L for low
345 — Value for hours must be from 0 to 23
346 — Invalid Time Out should be 2 to 384 in 2 Hr. Increm.
347 — Invalid Range — Range (RRRRRR) to (RRRRRR)
348 — Failure on receiving length. Status =
349 — Initialization cannot be done for this converter type
350 — Value for seconds must be between 0 and 59
351 — Value for tics must be between 0 and 59
352 — Service Code not available
353 — Invalid Service Code Range - Range (nnn) to (nnn)
354 — No Subscriptions Configured
355 — No Events Configured
356 — Enter valid channel umber Cable ID (A or B) optional
387 — PC LOCK and LAS/FAV CHANNEL cannot both be "Y"
358 — Service code not found
359 — The service is not active during this time period
360 — Invalid Morallity Code
361 — Schedule time is not consistent with pay service time
362 — Invalid service number encountered in the pay services
363 — Converter type invalid with subids configured for QC
364 — Converter type invalid - down-loadable converters only

4.2 (continued)

1000 — DS/E queue cleared
1001 — DS/E clear failed
1002 — DS/E name or number must be input
1003 — DS/E read failed
1004 — DS/E successfully set
1005 — DS/E set failed
1006 — Illegal value for video inversion
1007 — DS/E verification failed
1008 — Database update failed after DS/E set
1009 — Send failed when setting DS/E
1010 — Attempt to set DS/E scrambling mode failed
1011 — Atempt to read DS/E scrambling mode failed
1012 — DS/E scrambling mode set
1013 — A DS/E record already exists with this value as a key
1014 — First letter must be an A or B
1015 — Invalid DS/E ID. Values are between 260096 and 262143
1016 — No changes were made. No need for the update
1017 — Warning, Line Inversion may not be supported by DS/E
1018 — DS/E is one-way, two-way commands cannot be performed
1019 — Channel is not under DSE control
1020 — DSE information sent
9999 — No message found for nnnnnn in routine GDTX10

4.3 FUNCTIONS LISTED NUMERICALLY

Number	Title
1	Enter Password
2	Selection Menu
3	
4	Add New Subsriber — Full Display
5	Change Subscriber Information — Full Display
6	Change Subscriber Identity
7	Delete Subscriber
8	Clear Converter Control Keys
9	Test Converter Installation
10	Broadcast Commands
11	
12	Read Single Converter Purchases
13	
14	Data Collection Menu
15	Read Single Converter Authorizations
16	
17	
18	Isolate Babbling Converters
19	
20	
21	Purchase Data Collection
21A	Purchase Data Collection
22	
23	Do Non-Responding Converter Poll
24	Initialize Single Downloadable Converter
25	
26	Opinion Polling Menu
27	Define Default Converter Information
28	
38	Enter Channel Cross Reference Information
39	
40	Cancel Non-Responding Poll in Progress
41	Recover Previously Collected Data
42	Enter Autotest Information
43	Initialize Downloadable Converters
44	Change Single Converter Upstream Level
45	Direct Control of the Data Commander
46	Direct Control of a DS/E
46A	DS/E Programmable Scrambling Modes
47	
48	Read STARFONE Purchaser Data
49	
50	Read Single Subscriber Purchased Data
51	Clear Collected Purchases From Converter
52	
53	Cancel Data Collection in Progress
57	Do Fast Opinion Poll
57A	Opinion Polling Responses
58	Refresh Single Downloadable Converters
60	Enter DS/E Information
61	Change DS/E Information
63	Delete DS/E Information

4.3 (continued)

71	Converter Quality Control
94	Add New Subscriber — Brief Display
95	Change Subscriber Information — Brief Display
97	Delete Subscribers By Range
99	Schedule Polling
153	1—Way System Menu
154	Subscriber Service Menu
155	Converter Operation Menu
156	Headend Operations Menu
200	Shutdown System
201	System Configuration Menu
202	New Software Release
203	Offline Diagnostics Menu
204	Add Data Entry CRTs and Printers
205	Update Passwords
206	Start/Stop Cable Interface
211	Transfer a File to Tape
212	Update Subscriber File
213	Update Pay Services Menu
223	Clear Pay Services History File
224	Clear Data Collection File
225	Clear Transaction File
226	Clear Opinion Poll File
227	Clear Error Log
228	Factory Installation
229	Customer Configuration
230	Field Service Configuration
231	Backup to Mag Tape
232	Restore Data Files
233	Add a New Service
234	Delete a Service or Package
235	Delete a Channel Schedule
237	Change a Service
240	Implement Pay Service Updates
241	Add a New Package
242	Change a Package
245	Build a New Channel Schedule
246	Change a Channel Schedule
247	Copy a Channel Schedule
248	System Management Menu
249	Help Menu
251	System Utilities Menu
253	Help for AH4 Keyboard
254	How to Use This System
255	Help for 1—Way Systems
256	Help for 2—Way Systems
300	PPV Menu
301	Start/Stop PPV Wire Link
302	Change PPV Wire Link Debug Options
303	Change PPV Wire Link Logging Options
304	Change Subscriber PPV Information
305	Print PPV Exception Log
306	Wire Link Menu

4.3 (continued)

307 Start/Stop Wire Link
308 Change Wire Link Debug Options
309 Change Logging Options
310 Print PPV Results
311 Transfer PPV Billing Info. to Tape
321 Report Menu
322 Pay Services Reports
323 Converter Information Report Menu
324 Print Summary Information
325 Print Converter Information
326 Subscriber Authorization Reports
327 Print Service Number Information
328 Print STARCOM V Information
329 Print Converter Status
330 System Information Report Menu
331 Password Reports
332 Print Autotest Information
333 Pint Default Converter Information
334 Print System Configuration
335 Print Channel Cross Reference Lists
336 Data Collection Report
337 Opinion Polling Reports
338 Non-Responding Converter Reports
339 Control of Reports
340 Activity Logging Report
341 Print Prom Programming List
342 Print DSE Status Information
343 DSE/DVE Report
344 Quick Summary Reports

4.4 PRINTED REPORT SAMPLES

Report Menu

Pay Service Menu

- Print Services Sorted by Service Number 4A-1
- Print Packages Sorted by Service Number 4A-2
- Print History Services Sorted by Service Number 4A-3

Converter Information

- Print Summary Information 4A-4
- Print Converter Information
  - All Information 4A-5
  - Active Converters 4A-6
  - Inactive Converters 4A-7
  - Connected Converters 4A-8
  - Purchase Status/Credit Limit 4A-9
  - Converter Type 4A-10
  - Remote Unit Status 4A-11
  - Converters in Transit 4A-12
  - Initialized Converterd 4A-13
  - Converter Status 4A-14
  - Date of Installation 4A-15
- Print Subscriber Authorizations 4A-16
- Print Service Number Information
  - Summary Service Number Report *** 4A-17
  - Summary Service Number Report *** 4A-18
- Print Starcom V Information 4A-19
- Print Converter Status 4A-20

System Information

- Print Passwords 4A-21
- Print Autotest Information 4A-22
- Print Default Converter Information 4A-23
- Print System Configuration 4A-24
- Print System Configuration 4A-25
- Print Channel Cross Reference Lists 4A-26
- Print DSE Information
  - Print DSE/DVE Information Report 4A-27

Data Collection 4A-28

Opinion Polling Reports 4A-29

435-970

PAY SERVICES REPORT SORTED BY SERVICE NUMBER

OPERATOR ID # : 50

SERVICE NUMBER		SERVICE TYPE	CHANNEL NUMBER	DESCRIPTION	PRICE	SENSITIVE	SERVICE CODE	TIME	DATE	DURATION
1		E	139	CHANNEL 139 PPV	0.00	N	212	17:00	02/21/85	02:20
2		E	142	CHANNEL 142 PPV	0.00	N	198	17:00	02/21/85	02:20
3		E	143	CHANNEL 143 PPV	0.00	N	220	06:00	02/26/85	23:59
4		P	1000	BIG TEN SEASON TICKET	45.00					
	10	S	B013	BIG TEN--GAME # 1	06.00	N	10			
	11	S	B013	BIG TEN--GAME #2	06.00	N	11			
	12	S	B013	BIG TEN--GAME #3	06.00	N	12			
	16	S	B013	BIG TEN--GAME #4	06.00	Y	16			
	18	S	B013	BIG TEN--GAME #5	06.00	N	18			
	19	S	B013	BIG TEN--GAME #6	06.00	N	19			
	26	S	B013	BIG TEN--GAME #7	06.00	N	26			
	27	S	B013	BIG TEN--GAME #8	06.00	N	27			
	28	S	B013	BIG TEN--GAME #9	06.00	N	28			
	29	S	B013	BIG TEN--GAME #10	06.00	N	29			
5		P	000	BASIC	19.95					
	15	S	A025	HBO	.00	Y	15			
	22	S	A030	DISNEY	.00	N	22			
	23	S	A031	CINEMAX	.00	Y	23			
9		S	A030	DUMMY PAY-PER-VIEW	0.00	N	9			
10		S	B013	BIG TEN--GAME # 1	06.00	N	10			
11		S	B013	BIG TEN--GAME #2	06.00	N	11			
12		S	B013	BIG TEN--GAME #3	06.00	N	12			
13		S	A002	TIER I	.00	N	13			
14		S	A024	HTN	.00	N	14			

4.4 (continued)

15-Mar-85
Page 1

PAY SERVICES PACKAGES REPORT SORTED BY SERVICE NUMBER

OPERATOR ID # : 50

SERVICE NUMBER	SERVICE TYPE	CHANNEL NUMBER	DESCRIPTION	PRICE	SENSITIVE	SERVICE CODE	TIME	DATE	DURATION
4	P	1000	BIG TEN SEASON TICKET	45.00					
10	S	B013	BIG TEN--GAME # 1	06.00	N	10			
11	S	B013	BIG TEN--GAME #2	06.00	N	11			
12	S	B013	BIG TEN--GAME #3	06.00	N	12			
16	S	B013	BIG TEN--GAME #4	06.00	Y	16			
18	S	B013	BIG TEN--GAME #5	06.00	N	18			
19	S	B013	BIG TEN--GAME #6	06.00	N	19			
26	S	B013	BIG TEN--GAME #7	06.00	N	26			
27	S	B013	BIG TEN--GAME #8	06.00	N	27			
28	S	B013	BIG TEN--GAME #9	06.00	N	28			
29	S	B013	BIG TEN--GAME #10	06.00	N	29			
5	P	000	BASIC	19.95					
15	S	A025	HBO	.00	Y	15			
22	S	A030	DISNEY	.00	N	22			
23	S	A031	CINEMAX	.00	Y	23			

15-Mar-85
Page 1

PAY SERVICES HISTORY REPORT SORTED BY SERVICE NUMBER

OPERATOR ID # : 50

SERVICE NUMBER	CHANNEL NUMBER	SERVICE TYPE	DESCRIPTION	PRICE	SENSITIVE	SERVICE CODE	TIME	DATE	DURATION
3	143	E	CHANNEL 143 PPV	0.00	N	203	17:00	02/21/85	02:20
33	141	E	STARMAN	0.00	Y	200	09:40	02/27/85	01:00
34	141	E	MICKEY & MAUDE	0.00	N	220	14:40	02/27/85	01:00
36	141	E	THIEF OF HEARTS	0.00	N	194	14:40	03/05/85	01:00
194	141	E	THIEF OF HEARTS	0.00	N	194	02:40	03/06/85	01:00
195	141	E	THIEF OF HEARTS	0.00	N	202	09:40	03/01/85	01:00
196	141	E	STARMAN	0.00	N	222	14:40	03/01/85	01:00

4.4 (continued)

SUMMARY INFORMATION REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

TOTALS:

CONNECTED CONVERTERS	21
ACTIVE CONVERTERS	18
INACTIVE CONVERTERS	3
INITIALIZED CONVERTERS	21
UN-INITIALIZED CONVERTERS	0
RESPONDING CONVERTERS	19
NON-RESPONDING CONVERTERS	2
CONVERTERS WITH REMOTE UNIT ENABLED	20
CONVERTERS WITH REMOTE UNIT DISABLED	0
CONVERTERS WITH PURCHASES ALLOWED	0
CONVERTERS WITH PURCHASES NOT ALLOWED	21

15-Mar-85
Page 1

ALL CONVERTER INFORMATION REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER	CONV TYPE	ACTIVE	INIT'D	RESPON-SIVE	INSTALL DATE	REMOTE UNIT	CONV STATUS	TIME OUT	PURCHASES ENABLED	CREDIT LIMIT
330000			2	Y	Y	Y	08/10/84	Y			N	0
330012			2	Y	Y	Y	08/14/84	Y			N	0
330024			2	Y	Y	Y	08/14/84	Y			N	0
330036			2	Y	Y	Y	08/14/84	Y			N	0
330048			2	Y	Y	Y	08/14/84	Y			N	0
330050			2	N	Y	Y	08/14/84	Y			N	0
330061			2	Y	Y	Y	08/14/84	Y			N	0
330073			2	Y	Y	Y	08/14/84	Y			N	0
330085			2	N	Y	Y	08/14/84	Y			N	0
330097			2	Y	Y	Y	08/14/84	Y			N	0
330103	J4M0001472	59513011	5	Y	Y	N	02/06/85	Y	D	192	N	0
330115			2	Y	Y	Y	08/14/84	Y			N	0
330127			2	Y	Y	Y	08/14/84	Y			N	0
330139	J4M0001950	74229011	5	Y	Y	N	02/06/85	N	D	192	N	0
330140			2	N	Y	Y	08/14/84	Y			N	0
330152			2	Y	Y	Y	08/14/84	Y			N	0
330164			2	Y	Y	Y	08/14/84	Y			N	0
330176			2	Y	Y	Y	08/14/84	Y			N	0
330188			2	Y	Y	Y	08/14/84	Y			N	0
330190			2	Y	Y	Y	08/14/84	Y			N	0
330206			2	Y	Y	Y	08/14/84	Y			N	0

15-Mar-85
Page 1

ACTIVE CONVERTERS REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER
330000		
330012		
330024		
330036		
330048		
330061		
330073		
330097		
330103	J4M0001472	59513011
330115		
330127		
330139	J4M0001950	74229011
330152		
330164		
330176		
330188		
330190		
330206		

TOTALS:

ACTIVE CONVERTERS	18
INACTIVE CONVERTERS	3

15-Mar-85
Page 1

INACTIVE CONVERTERS REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER
330050		
330085		
330140		

TOTALS:

ACTIVE CONVERTERS	18
INACTIVE CONVERTERS	3

15-Mar-85
Page 1

CONNECTED CONVERTERS REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER
330000		
330012		
330024		
330036		
330048		
330050		
330061		
330073		
330085		
330097		
330103	J4M0001472	59513011
330115		
330127		
330139	J4M0001950	74229011
330140		
330152		
330164		
330176		
330188		
330190		
330206		

TOTALS:

CONNECTED CONVERTERS	21
DISCONNECTED CONVERTERS	0

15-Mar-85
Page 1

PURCHASES STATUS/CREDIT LIMIT REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER	PURCHASES STATUS	CREDIT LIMIT
330000			N	0
330012			N	0
330024			N	0
330036			N	0
330048			N	0
330050			N	0
330061			N	0
330073			N	0
330085			N	0
330097			N	0
330103	J4M0001472	59513011	N	0
330115			N	0
330127			N	0
330139	J4M0001950	74229011	N	0
330140			N	0
330152			N	0
330164			N	0
330176			N	0
330188			N	0
330190			N	0
330206			N	0

TOTALS:

CONVERTERS WITH PURCHASES ALLOWED 0
CONVERTERS WITH PURCHASES NOT ALLOWED 21

15-Mar-85
Page 1

CONVERTER TYPE REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER	CONVERTER TYPE
330000			2
330012			2
330024			2
330036			2
330048			2
330050			2
330061			2
330073			2
330085			2
330097			2
330103	J4M0001472	59513011	5
330115			2
330127			2
330139	J4M0001950	74229011	5
330140			2
330152			2
330164			2
330176			2
330188			2
330190			2
330206			2

15-Mar-85
Page 1

REMOTE UNIT STATUS REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER	REMOTE UNIT
330000			Y
330012			Y
330024			Y
330036			Y
330048			Y
330050			Y
330061			Y
330073			Y
330085			Y
330097			Y
330103	J4M0001472	59513011	Y
330115			Y
330127			Y
330139	J4M0001950	74229011	N
330140			Y
330152			Y
330164			Y
330176			Y
330188			Y
330190			Y
330206			Y

TOTALS:

CONVERTERS WITH REMOTE UNIT ENABLED	20
CONVERTERS WITH REMOTE UNIT DISABLED	1

15-Mar-85
Page 1

CONVERTERS IN TRANSIT REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER
330050		
330085		
330140		

TOTALS:

CONVERTERS IN TRANSIT 3

15-Mar-85
Page 1

INITIALIZED CONVERTERS REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER
330000		
330012		
330024		
330036		
330048		
330050		
330061		
330073		
330085		
330097		
330103	J4M0001472	59513011
330115		
330127		
330139	J4M0001950	74229011
330140		
330152		
330164		
330176		
330188		
330190		
330206		

TOTALS:

INITIALIZED CONVERTERS	21
UNINITIALIZED CONVERTERS	0

4.4 (continued)

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                CONVERTER STATUS SUMMARY REPORT                    15-Mar-85
                                                                   Page 1

                --------------------------------

                OPERATOR ID #  50
                FOR SUBSCRIBER ID  33000 TO 33020


CONVERTER                                          TOTAL
 STATUS                                            NUMBER


NO STATUS                                            19
D                                                     2
```

15-Mar-85
Page 1

INSTALLATION DATE REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER	INSTALLATION DATE
330000			08/10/84
330012			08/14/84
330024			08/14/84
330036			08/14/84
330048			08/14/84
330050			08/14/84
330061			08/14/84
330073			08/14/84
330085			08/14/84
330097			08/14/84
330103	J4M0001472	59513011	02/06/85
330115			08/14/84
330127			08/14/84
330139	J4M0001950	74229011	02/06/85
330140			08/14/84
330152			08/14/84
330164			08/14/84
330176			08/14/84
330188			08/14/84
330190			08/14/84
330206			08/14/84

AUTHORIZED SERVICES REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER	NUMBER OF SERVICES	SERVICES
330103	J4M0001472	59513011	6	15 17 23 24 25 32
330115			5	15 17 25 31 32
330127			2	17 25
330139	J4M0001950	74229011	2	17 25
330140			11	13 14 15 17 22 23 24 25 30 31 32
330152			4	15 17 23 25
330164			3	15 17 25
330176			5	15 17 22 23 25
330188			5	15 17 20 22 25
330190			3	14 17 25

4.4 (continued)

```
@DOSUMMARY


Subscriber Summary Report

This report will print the total number of subscribers that are
connected, active and have each service in this AH4 system

An asterisk (*) will be printed on this terminal at the completion of each
1000 subscribers processed



Enter the ID of the first subscriber for this report (no check digit): 1

Now enter the ID of the last subscriber for this report (no check digit): 33000
**********************************
Summary report   started at   11:16:49
                 completed at   11:24:42

Start ID for this summary report: 1
Stop ID for this summary report: 33000

Total subscribers scanned:        33000

Number of subscribers connected:  33000
Number of subscribers active:  28778

Service # 13 count =    3734
Service # 14 count =    4261
Service # 15 count =   19868
Service # 16 count =       0
Service # 17 count =   27848
Service # 18 count =       0
Service # 19 count =       0
Service # 20 count =    2891
Service # 21 count =       3
Service # 22 count =   10911
Service # 23 count =   10820
Service # 24 count =    4834
Service # 25 count =   32307
Service # 26 count =       0
Service # 27 count =       0
Service # 28 count =       0
Service # 29 count =       0
Service # 30 count =    4109
Service # 31 count =   10435
Service # 32 count =   14521
>
```

15-Mar-85
Page 1

STARCOM V CONVERTER INFORMATION REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33020

SUBSCRIBER ID	SERIAL NUMBER	ACCOUNT NUMBER	PURCHASES ALLOWED	CREDIT LIMIT	XREF LIST	CHANNEL SELECT	REMOTE UNIT	TWO WAY	TUNING TYPE	TIME OUT	TIME ZONE	PARENTAL CONTROL	VOLUME CONTROL
330103	J4M0001472	59513011	N	0	1	Y	Y	N	H	192		Y	Y
330139	J4M0001950	74229011	N	0	1	Y	N	N	H	192		Y	Y

15-Mar-85
Page 1

CONVERTER STATUS SUMMARY REPORT

SORTED BY : SUBSCRIBER ID
OPERATOR ID # 50
FOR SUBSCRIBER ID 33000 TO 33300
FROM STATUS : A TO: D

SUBSCRIBER ID	CONVERTER SERIAL NUMBER	ACCOUNT NUMBER	CONVERTER STATUS
330103	J4M0001472	59513011	D
330139	J4M0001950	74229011	D
330220	J4H0005943	96119011	D
330360	J4M0002105	108714011	D
330619	J4M0000786	78588011	D
330620	J4G0000111	79683011	D
330632	J4F0001392	97968011	D
330899	J4M0001979	35047012	D
331004	J4M0001442	116025011	D
331235	J4M0001561	51675012	D
331326	J4M0000877	55537011	D
331430	4G032184	107055011	D
331806	J4M0002290	35455012	D
331855	J4M0102344	27349011	D
332070	J4M0000782	93014011	D
332495	J4M0001820	62852011	D
332586	J4M0001625	35455011	D
332744	J4M0001978	31519011	D
332793	J4M0000802	86961012	D
332859	J4M0100734	84930011	D
332940	J4M0001921	36303012	D
332987	J4L0004242	102248011	D

15-Mar-85
Page 1

PASSWORD REPORT SORTED BY OPERATOR ID

OPERATOR ID # 50

OPERATOR ID	OPERATOR NAME	PASSWORD
1	OPERATOR1	PASSWORD1
2	OPERATOR2	PASSWORD2
3	OPERATOR3	PASSWORD3
4	OPERATOR4	PASSWORD4
5	OPERATOR5	PASSWORD5
6	OPERATOR6	PASSWORD6
7	OPERATOR7	PASSWORD7
8	OPERATOR8	PASSWORD8
49	OPERATOR49	PASSWORD49

15-Mar-85
Page 1

AUTOTEST INFORMATION REPORT

OPERATOR ID # 50

STEP	SERVICE CODE	DURATION IN SECONDS
1	15	1
2	22	1
3	15	1
4	22	1

15-Mar-85
Page 1

DEFAULT CONVERTER INFORMATION REPORT

OPERATOR ID # : 50
FOR CONVERTER TYPES : 01 TO : 03

CONVERTER TYPE	TWO WAY	ACTIVE	PURCHASES ALLOWED	TIME ZONE	TIME OUT	CREDIT LIMIT	CONVERTER STATUS	REMOTE UNIT	EMERGENCY ALERT	TUNING TYPE	CHNL CROSSREF	OUTPUT CHANNEL
1	N	Y	N					Y				

NUMBER OF PAY SERVICES : 0 SERVICE NUMBERS :

CONVERTER TYPE	TWO WAY	ACTIVE	PURCHASES ALLOWED	TIME ZONE	TIME OUT	CREDIT LIMIT	CONVERTER STATUS	REMOTE UNIT	EMERGENCY ALERT	TUNING TYPE	CHNL CROSSREF	OUTPUT CHANNEL
2	N	Y	N					Y				

NUMBER OF PAY SERVICES : 0 SERVICE NUMBERS :

CONVERTER TYPE	TWO WAY	ACTIVE	PURCHASES ALLOWED	TIME ZONE	TIME OUT	CREDIT LIMIT	CONVERTER STATUS	REMOTE UNIT	EMERGENCY ALERT	TUNING TYPE	CHNL CROSSREF	OUTPUT CHANNEL
3	N	Y	N					Y				

NUMBER OF PAY SERVICES : 0 SERVICE NUMBERS :

CONFIGURATION INFORMATION REPORT

Date 03/15/85

Version number	V01.32
SCX cards	0
SCXE cards	1
SRX cards	0
SCX version number	2
SCXE version number	0
SRX version number	1
SRT version number	0
baud rate	1
geography code	1
site code	166
up stream frequency	101
up stream level	15
subscribers per partition	24
number of subscribers	96
subscriber usage	0 0 T N N N N N N N N N N N N N
number of service codes	56
number of subscriptions	24
number of event codes	32
number of 2way event codes	0
Service code group usage	N S S S N N N N N N N N N N N N N N N N N N N N E E E E N N N N
default morality	X
morality names	GPRX----
sensitivity	25
autotest	FALSE
wirelink	TRUE
phone per view	FALSE
morality codes	FALSE
any one way	TRUE
any two way	TRUE
old converters	TRUE
starvue	TRUE
one way starcom 5	TRUE
two way starcom 5	TRUE
phase 3	TRUE
hybrid system	TRUE
time of day	TRUE
decryption key	0
DSE queue scan interval	0
pay service scan interval	10
global service code off	8
broadcast decryption key	3
global reset timeout	0
number of channels	127
B cable	TRUE
account numbers	TRUE
display service codes	TRUE

CONFIGURATION INFORMATION REPORT — Page 2

Date 03/15/85

poll delay ----------	31							
init punch delay ----------	24							
fill favorite map delay ---	6							
frequency change delay ----	12							
maximum poll errors --------	255							
punch retries -------------	3							
default connect -----------	FALSE							
xmit wait time ------------	4							
load wait time ------------	2							
automatic initialization --	FALSE							
default converter type ----	2							
bsda ----------------------	FALSE							
update DB on event poll ---	TRUE							
active map on NR box poll -	TRUE							
physical port names -------	PORT01	PORT02	PORT03	PORT04	PORT05	PORT06	PORT07	PORT08
	PORT09	PORT10	PORT11	PORT12	PORT13	PORT14	PORT15	PORT16
	PORT17	PORT18	PORT19	PORT20	PORT21	PORT22	PORT23	PORT24
	PORT25	PORT26	PORT27	PORT28	PORT29	PORT30	PORT31	PORT32
logical port names --------	TT00:	TT01:	TT02:	TT03:	TT04:	TT05:	TT06:	TT07:
	TT10:	TT11:	TT12:	TT13:	TT14:	TT15:	TT16:	TT17:
	TT20:	TT21:	TT22:	TT23:	TT24:	TT25:	TT26:	TT27:
	TT30:	TT31:	TT32:	TT33:	TT34:	TT35:	TT36:	TT37:
port characteristics ------	R-----	R-----	R-----	R-----	R-----	R-----	R-----	R-----
	R-----	R-----	R-----	R-----	R-----	R-----	R-----	R-----
	R-----	R-----	R-----	R-----	R-----	R-----	R-----	R-----
number of report copies ---	2							
# active tasks allowed ----	2							
terminal control map ------	FALSE							
reset timeout 1-way map ---	TRUE							
reset timeout 2-way map ---	FALSE							
SCX subunits required -----	15							
TPFV version --------------	V01.32							
money display units ------	0							
US date display -----------	TRUE							
Data base crash recovery --	TRUE							
Bytes queued in system ----	3							
Punch transaction timeout -	7860							
Manufacturing sites -------	JTC---							
Purchases file warning ----	0							
Purchases file limit ------	0							
Opinion file warning ------	0							
Opinion file limit --------	0							
Transaction file warning --	0							
Transaction file limit ----	0							
Quality control start subid	249000							
Quality control end subid -	249999							
System start time ---------	03/15/85 09:22							

15-Mar-85
Page 1

CHANNEL CROSS REFERENCE REPORT

OPERATOR ID # : 50
FOR LIST NUMBERS : 01 TO : 99

LIST NUMBER : 1

CHANNEL TUNED	CABLE	MODULATED CHANNEL
1	A	0
2	A	43
3	A	2
4	A	3
5	A	4
6	A	5
7	A	6
8	A	7
9	A	8
10	A	9
11	A	10
12	A	11
13	A	12
14	A	13
15	A	14
16	A	15
17	A	16
18	A	17
19	A	18
20	A	19
21	A	20
22	A	21
23	A	22
24	A	23
25	A	24
26	A	25
27	A	26
28	A	27
29	A	28
30	A	29
31	A	30
32	A	31
33	A	32
34	A	33
35	A	34
36	A	35
37	A	36
38	A	37
39	A	38
40	A	39
41		0
42		0
43		0

DSE/DVE INFORMATION REPORT

OPERATOR ID # 50

DSE NUMBER ----	261140
DSE NAME ------	CH 140
DSE MODEL -----	1
CHANNEL NUMBER	B040
SERVICE CODE --	21
TWO WAY -------	Y
ACTIVE --------	Y
DYNAMIC MODE --	2
TIME INTERVAL -	00:00:00:00
SYNC SUPPRESION	3
AUTO CONTROL --	N
DESCRIPTION ---	CH 140 PPV
DVE PRESENT ---	Y
DVE MODEL -----	1
AUDIO INVERSION	Y
VIDEO INVERSION	A

DSE NUMBER ----	261141
DSE NAME ------	CH 141
DSE MODEL -----	2
CHANNEL NUMBER	B041
SERVICE CODE --	21
TWO WAY -------	Y
ACTIVE --------	Y
DYNAMIC MODE --	2
TIME INTERVAL -	00:00:00:00
SYNC SUPPRESION	3
AUTO CONTROL --	N
DESCRIPTION ---	CH 141 PPV
DVE PRESENT ---	Y
DVE MODEL -----	2
AUDIO INVERSION	Y
VIDEO INVERSION	A

DSE NUMBER ----	261142
DSE NAME ------	CH 142
DSE MODEL -----	3
CHANNEL NUMBER	B042
SERVICE CODE --	21
TWO WAY -------	Y
ACTIVE --------	Y
DYNAMIC MODE --	2
TIME INTERVAL -	00:00:00:00
SYNC SUPPRESION	3
AUTO CONTROL --	Y
DESCRIPTION ---	CH 142 PPV
DVE PRESENT ---	Y
DVE MODEL -----	3
AUDIO INVERSION	Y

15-Mar-85
Page 1

DATA COLLECTION REPORT SORTED BY SUBSCRIBER ID

OPERATOR ID # 1

SERIAL NUMBER	SUBSCRIBER ID	ACCOUNT NUMBER	SERVICE NUMBER	SERVICE CODE	DATE	TIME	DESCRIPTION
*****			DATE OF POLL : 03/12/85 12:51				*****
J4J1000096	655375	PHONE ACCT	28	202	03/12/85	12:00	SUPRISE EVENT-WORTH > $2.95

OPINION POLLING REPORT

OPERATOR ID # : 50

DATE OF POLL : 02/22/85 11:38

RESPONSE NUMBER	NUMBER OF RESPONSES	PERCENTAGE OF TOTAL
0	0	0.00
1	0	0.00
2	0	0.00
3	0	0.00
4	0	0.00
5	0	0.00
6	0	0.00
7	0	0.00
8	0	0.00
9	0	0.00
10	0	0.00
11	0	0.00
12	0	0.00
13	0	0.00
14	0	0.00
15	0	0.00
16	0	0.00
17	0	0.00
18	0	0.00
19	0	0.00
20	0	0.00
21	0	0.00
22	0	0.00
23	0	0.00
24	0	0.00
25	0	0.00
26	0	0.00
27	0	0.00
28	0	0.00
29	0	0.00
30	0	0.00
31	0	0.00

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